SAMSUNG

User manual

S22B360V
S22B360VW

The color and the appearance may differ depending on the product, and the specifications are subject to change without prior notice to improve the performance.

BN46-00198B-03

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Copyright

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- An administration fee may be charged if either
  - (a) an engineer is called out at your request and there is no defect in the product.
    (i.e. where you have failed to read this user manual)
  - (b) you bring the unit to a repair centre and there is no defect in the product.
    (i.e. where you have failed to read this user manual)
- The amount of such administration charge will be advised to you before any work or home visit is carried out.

Icons used in this manual

	The following images are for reference only. Real-life situations may differ from what is shown in the images.

Symbols for safety precautions

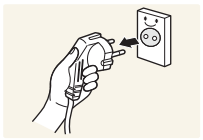
Warning	A serious or fatal injury may result if instructions are not followed.
Caution	Personal injury or damage to properties may result if instructions are not followed.
	Activities marked by this symbol are prohibited.
	Instructions marked by this symbol must be followed.

Cleaning

Cleaning

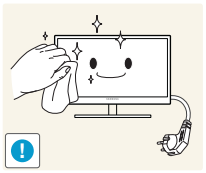
Exercise care when cleaning as the panel and exterior of advanced LCDs are easily scratched.

Take the following steps when cleaning.



1. Power off the monitor and computer.
2. Disconnect the power cable from the monitor.

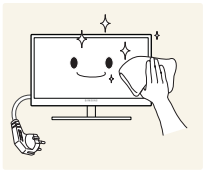
Hold the power cable by the plug and do not touch the cable with wet hands. Otherwise, an electric shock may result.



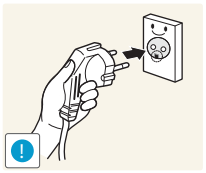
3. Wipe the monitor screen using a clean, soft and dry cloth.

- Do not apply a cleaning agent that contains alcohol, solvent, or surfactant to the monitor.

- Do not spray water or detergent directly on the product.



4. Wet a soft and dry cloth in water and wring thoroughly to clean the exterior of the monitor.

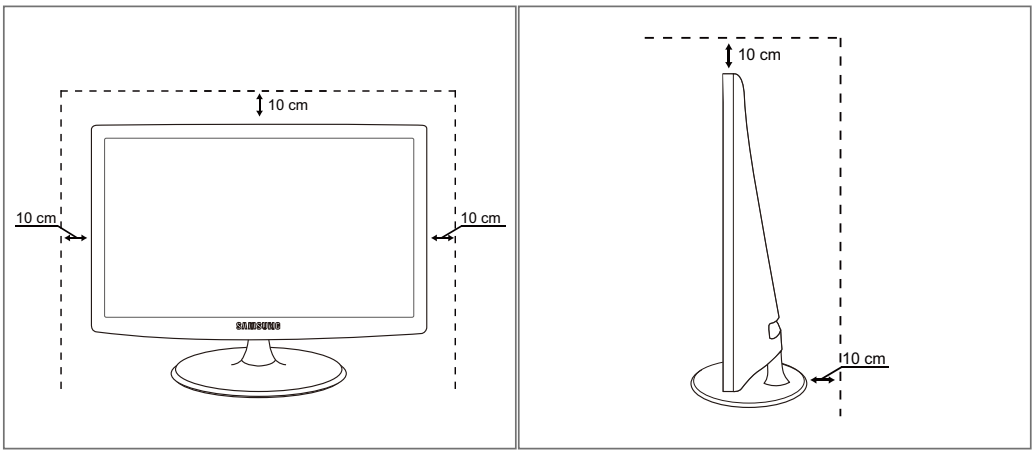


5. Connect the power cable to the product after cleaning the product.
6. Power on the monitor and computer.

Securing the Installation Space

- Ensure some space around the product for ventilation. An internal temperature rise may cause fire and damage the product. Be sure to allow the amount of space as shown below or greater when installing the product.

The exterior may differ depending on the product.



Precautions for storage

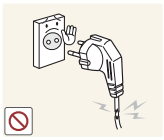
Be sure to contact Samsung Customer Service Center (page 88) if the inside of the monitor needs cleaning. (A service fee will be charged.)

Safety Precautions

Electricity and Safety

The following images are for reference only. Real-life situations may differ from what is shown in the images.

Warning



Do not use a damaged power cable or plug, or a loose power socket.

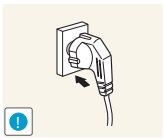
- An electric shock or fire may result.

Do not plug many products into the same power socket.

- Otherwise, the socket may overheat and cause a fire.

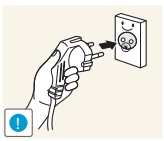
Do not touch the power cable with wet hands.

- Otherwise, an electric shock may result.



Insert the power cable all the way in so it is not loose.

- An unstable connection may cause a fire.



Be sure to plug the power cable into a grounded power socket. (type 1 insulated devices only).

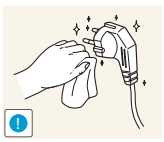
- An electric shock or injury may result.

Do not bend or pull the power cable with force. Do not weigh the power cable down with a heavy object.

- A damaged power cord may cause an electric shock or fire.

Do not place the power cable or product near heat sources.

- An electric shock or fire may result.



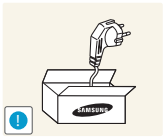
If the power cable pins or power outlet is covered with a foreign substance (dust, etc.), wipe it off using a dry cloth.

- Otherwise, a fire may result.

Caution

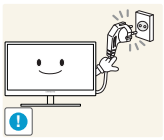
Do not disconnect the power cable while the product is being used.

- The product may become damaged by an electric shock.



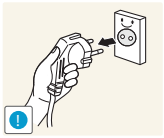
Do not use the power cable for products other than authorized products supplied by Samsung.

- An electric shock or fire may result.



Keep the power socket where the power cable is connected unobstructed.

- If any problem occurs in the product, unplug the power cable to completely cut the power to the product.
- Power to the product cannot be completely cut off with the power button.



Hold the plug when disconnecting the power cable from the power socket.

- An electric shock or fire may result.

Installation and Safety

Warning

DO NOT PLACE CANDLES, INSECT REPELLANTS OR CIGARETTES ON TOP OF THE PRODUCT. DO NOT INSTALL THE PRODUCT NEAR HEAT SOURCES.

- Otherwise, a fire may result.

Avoid installing the product in a narrow space with bad ventilation, such as a bookshelf or wall closet.

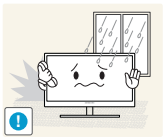
- Otherwise, a fire may result due to an increased internal temperature.

Keep the plastic packaging bag for the product in a place that cannot be reached by children.

- Children may suffocate.

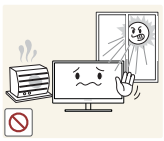
Do not install the product on an unstable or vibrating surface (insecure shelf, sloped surface, etc.).

- The product may fall and break or cause a personal injury.
- Using the product in an area with excess vibration may damage the product or cause a fire.



Do not install the product in a vehicle or a place exposed to dust, moisture (water drips, etc.), oil, or smoke.

- An electric shock or fire may result.



Do not expose the product to direct sunlight, heat, or a hot object such as a stove.

- Otherwise, the product lifespan may be reduced, or a fire may result.

Do not install the product within the reach of young children.

- The product may fall and injure children.

Edible oil, such as soybean oil, can damage or deform the product. Do not install the product in a kitchen or near a kitchen counter.

Caution

Take care not to drop the product when moving it.

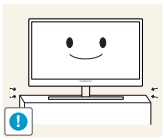
- Otherwise, product failure or personal injury may result.

Do not set down the product on its front.

- The screen may become damaged.

When installing the product on a cabinet or shelf, make sure that the bottom edge of the front of the product is not protruding.

- The product may fall and break or cause a personal injury.
- Install the product only on cabinets or shelves of the right size.



Put down the product carefully.

- The product may fall and break or cause a personal injury.

Installing the product in an unusual place (a place exposed to a lot of fine particles, chemical substances or extreme temperatures, or an airport or train station where the product should operate continuously for an extended period of time) may seriously affect its performance.

- Be sure to consult Samsung Customer Service Center (page 88) before installation if you want to install the product at such a place.

Operation and Safety

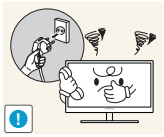
Warning

High voltage runs through the product. Do not attempt to disassemble, repair, or modify the product on your own.

- An electric shock or fire may result.
- Contact Samsung Customer Service Center (page 88) for repair.

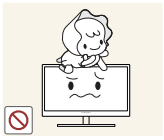
Before moving the product, turn off the power switch and disconnect the power cable and all other connected cables.

- Otherwise, the power cord may be damaged and a fire or electric shock may result.



If the product generates abnormal sounds, a burning smell or smoke, disconnect the power cable immediately and contact Samsung Customer Service Center(page 88).

- An electric shock or fire may result.



Do not let children hang from the product or climb on top of it.

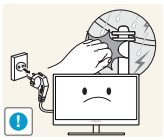
- The product may fall, and your child may become injured or seriously harmed.

If the product falls or the exterior is damaged, power off the product, remove the power cable, and contact Samsung Customer Service Center (page 88).

- Otherwise, an electric shock or fire may result.

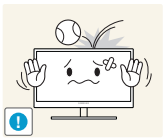
Do not put a heavy object, toy, or sweets on top of the product.

- The product or heavy objects may fall as children try to reach for the toy or sweets resulting in a serious injury.



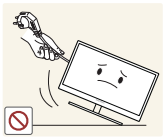
During a lightning or thunderstorm, power off the product and remove the power cable.

- An electric shock or fire may result.



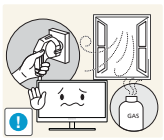
Do not drop objects on the product or apply impact.

- An electric shock or fire may result.



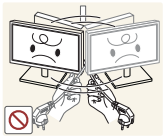
Do not move the product by pulling the power cord or any cable.

- Otherwise, the cable may be damaged and product failure, an electric shock or fire may result.



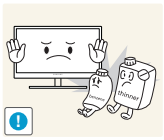
If a gas leakage is found, do not touch the product or power cable. Also, ventilate the area immediately.

- Sparks can cause an explosion or fire.



Do not lift or move the product by pulling the power cable or any cable.

- Otherwise, the cable may be damaged and product failure, an electric shock or fire may result.



Do not use or keep combustible spray or an inflammable substance near the product.

- An explosion or fire may result.

Ensure the vents are not blocked by tablecloths or curtains.

- Otherwise, a fire may result from an increased internal temperature.

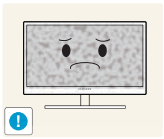
Do not insert a metallic object (a chopstick, coin, hair pin, etc.) or inflammable object (paper, match, etc.) into the vent or ports of the product.

- If water or any foreign substance enters the product, be sure to power off the product, remove the power cable, and contact Samsung Customer Service Center (page 88).
- Product failure, an electric shock or fire may result.

Do not place objects containing liquid (vases, pots, bottles, etc) or metallic objects on top of the product.

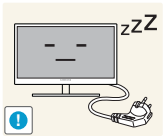
- If water or any foreign substance enters the product, be sure to power off the product, remove the power cable, and contact Samsung Customer Service Center (page 88).
- Product failure, an electric shock or fire may result.

Caution



Leaving the screen fixed on a stationary image for an extended period of time may cause afterimage burn-in or defective pixels.

- If you are not going to use the product for an extended period of time, activate power-saving mode or a moving-picture screen saver.

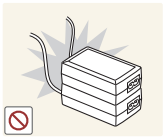


Disconnect the power cable from the power socket if you do not plan on using the product for an extended period of time (vacation, etc.).

- Otherwise, a fire may result from accumulated dust, overheating, an electric shock, or electric leakage.

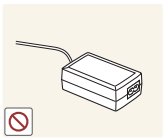
Use the product at the recommended resolution and frequency.

- Your eyesight may deteriorate.



Do not put DC power adapters together.

- Otherwise, a fire may result.



Remove the plastic bag from the DC power adapter before you use it.

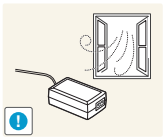
- Otherwise, a fire may result.

Do not let water enter the DC power adapter or get the adapter wet.

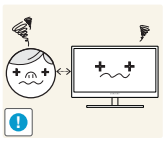
- An electric shock or fire may result.
- Avoid using the product outdoors where it can be exposed to rain or snow.
- Be careful not to get the DC power adapter wet when you wash the floor.

Do not put the DC power adapter near to any heating apparatus.

- Otherwise, a fire may result.



Keep the DC power adapter in a well-ventilated area.



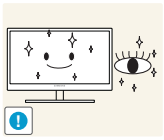
Looking at the screen too close for an extended period of time can deteriorate your eyesight.

Do not hold the monitor upside-down or move it by holding the stand.

- The product may fall and break or cause a personal injury.

Do not use humidifiers or stoves around the product.

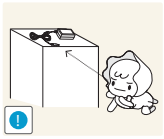
- An electric shock or fire may result.



Rest your eyes for more than 5 minutes for every 1 hour of product use.

- Eye fatigue will be relieved.

Do not touch the screen when the product has been turned on for an extended period of time as it will become hot.



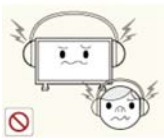
Store the small accessories used with the product out of reach of children.

Exercise caution when adjusting the product angle or stand height.

- Otherwise, children's fingers or hands may become stuck and injured.
- Tilting the product excessively may cause it to fall and result in personal injury.

Do not place heavy objects on the product.

- Product failure or personal injure may result.



Do not increase the volume too high when using headphones (earphones).

- Sound particularly at a higher volume could potentially affect long-term hearing.

Correct posture to use the product

Use the product in the correct posture as follows:

- Straighten your back.
- Allow a distance of 45 to 50cm between your eye and the screen, and look slightly downward at the screen.

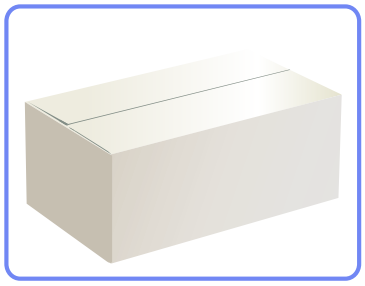
  Keep your eyes directly in front of the screen.
- Adjust the angle so light does not reflect on the screen.
- Keep your forearms perpendicular to your upper arms and level with the back of your hands.
- Keep your elbows at about a right angle.
- Adjust the height of the product so you can keep your knees bent at 90 degrees or more, your heels attached to the floor, and your arms lower than your heart.

1 Preparations

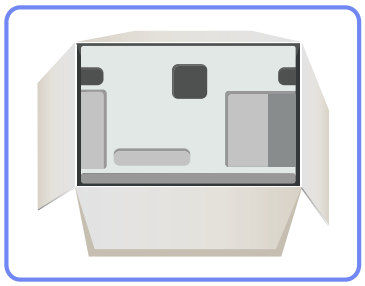
1.1 Checking the Contents

1.1.1 Removing the Packaging

1 Open the packaging box. Be careful not to damage the product when you open the packaging with a sharp instrument.

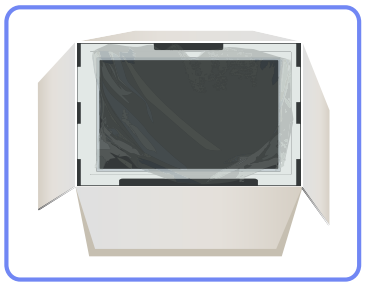


2 Remove the styrofoam from the product.



3 Check the components and remove the styrofoam and plastic bag.

This image is for reference only.

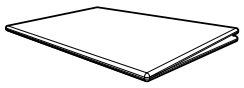


4 Store the box in a dry area so that it can be used when moving the product in the future.

1.1.2 Checking the Components

- Contact the dealer from whom you purchased the product if any item is missing.
- The appearance of the components and items sold separately may differ from the image shown.

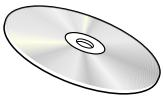
Components



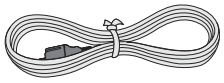
Quick setup guide

Warranty card

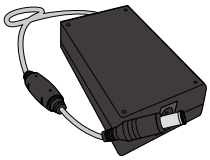
(Not available in some locations)



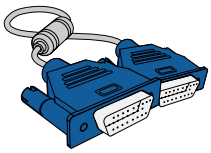
User manual



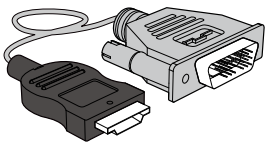
Power cable



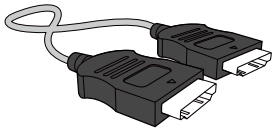
DC power adapter



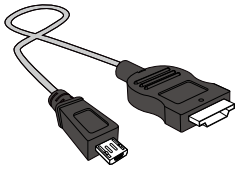
D-SUB cable (optional)



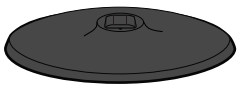
HDMI-DVI cable (optional)



HDMI cable (optional)



MHL cable (optional)



Stand

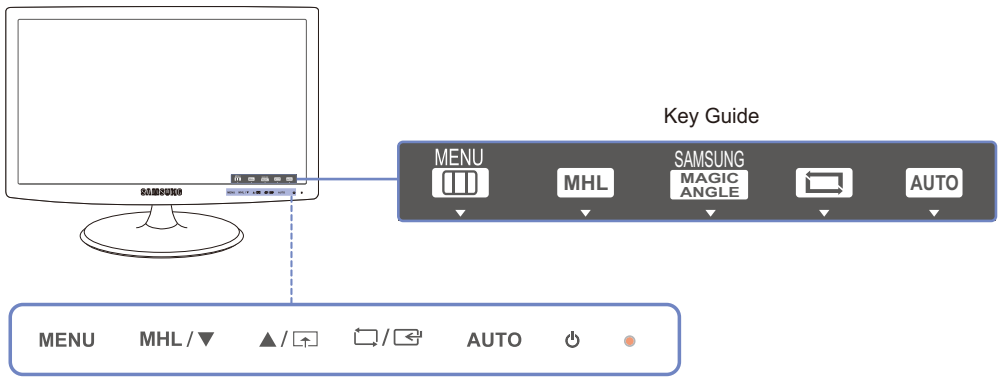
Stand Connector

Components may vary depending on the country.

1.2 Parts

1.2.1 Frontal Buttons

The color and shape of parts may differ from what is shown. Specifications are subject to change without notice to improve quality.



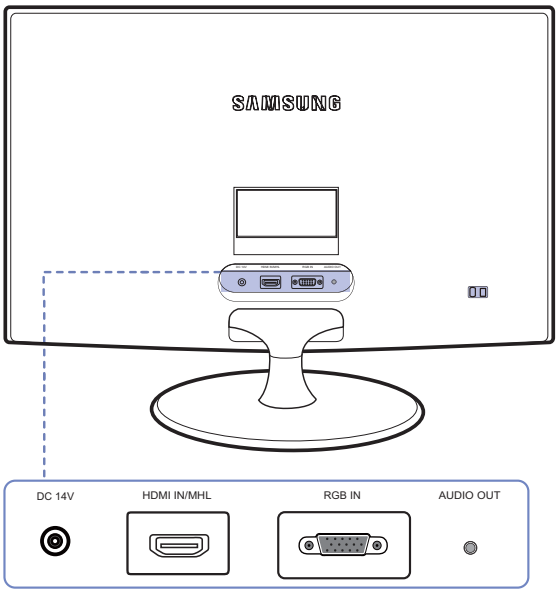
This is a touch-type button. Tap the button lightly with a finger.

Icons	Description
MENU	• Open or close the onscreen display (OSD) menu, or return to the parent menu. • OSD control lock: Maintain the current settings, or lock the OSD control to prevent unintended changes to settings. Enable: To lock the OSD control, press the [**MENU**] button for 10 seconds. Disable: To unlock the locked OSD control, press the [**MENU**] button for more than 10 seconds. If the OSD control is locked, • **Brightness** and **Contrast** can be adjusted, and **INFORMATION** can be viewed.
MHL	Pressing the [**MHL**] button when your smartphone is connected to [HDMI IN / MHL] on the product enables the **MHL** function, which allows you to import data from the smartphone to the product. For further details on the **MHL** function, refer to " Using "MHL(Mobile High-Definition Link)"".
▲/▼	Move to the upper or lower menu or adjust the value for an option on the OSD menu.

Icons	Description
	Configure **Customized Key** and press [ ]. The following options will be enabled. SAMSUNG MAGIC**Angle** - SAMSUNG MAGIC**Bright** - **Eco Saving** - **Image Size** To configure **Customized Key**, go to **SETUP&RESET** → **Customized Key** and select the mode you want.
/	Confirm a menu selection. Pressing the [/] button when the OSD menu is not displayed will change the input source (**Analog**/**HDMI/MHL**). If you power on the product or change the input source by pressing the [/] button, a message that shows the changed input source will appear at the top left corner of the screen.
AUTO	Press the [AUTO] button to automatically adjust the screen settings. • Changing the resolution in Display Properties will activate the **Auto Adjustment** function. • Available only in **Analog** mode.
	Turn the screen on or off.
(Power lamp)	The power indicator will be lit when the product is operating normally. To reduce power consumption, it is best to remove the power cable when you will not be using the product for an extended period of time.
Key Guide	When a control button on the product is pressed, the Key Guide will be displayed before the onscreen menu opens. (The guide shows the function of the button pressed.) To access the onscreen menu when the guide is displayed, press the corresponding button again. The Key Guide may vary depending on the function or product model. Refer to the actual product.

1.2.2 Reverse Side

The color and shape of parts may differ from what is shown. Specifications are subject to change without notice to improve quality.

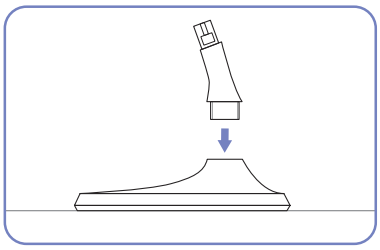


Port	About ports
	Connect to the DC power adapter.
HDMI IN / MHL	Connect to a source device that has the **MHL** function using the **MHL** cable. Connect to a source device using an HDMI cable.
	Connect to a PC using the D-SUB cable.
AUDIO OUT	Connect to an audio output device such as headphones.

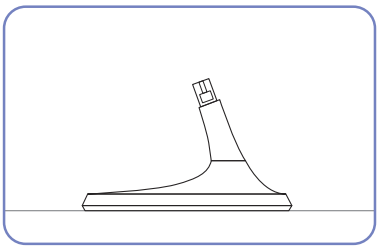
1.3 Installation

1.3.1 Attaching the cradle

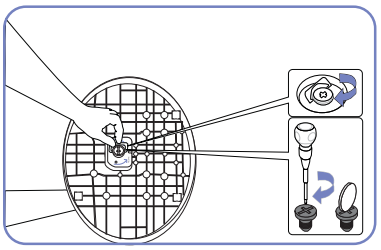
Before assembling the product, place the product down on a flat and stable surface so that the screen is facing downwards.



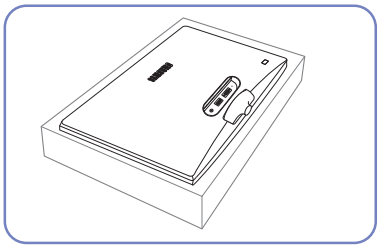
Insert the Stand Connector into the Stand in the direction shown by the figure.



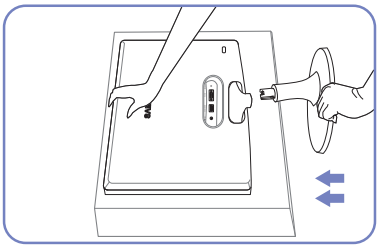
Check if the Stand Connector is firmly connected.



Turn the connecting screw at the bottom of the stand fully so that it is completely fixed.



Place a soft cloth over the table to protect the product and place the product onto the cloth so that the front of the product is facing downwards.



Hold the main body of the product with your hand as shown by the figure.

Push the assembled stand into the main body in the direction of the arrow as shown in the figure.

- Caution

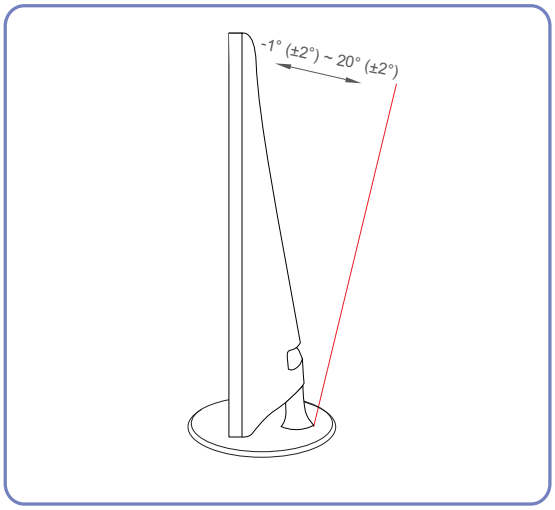
Do not hold the product upside down only by the stand.

The color and shape of parts may differ from what is shown. Specifications are subject to change without notice to improve quality.

1.3.2 Adjusting the Product Tilt

The color and shape of parts may differ from what is shown.

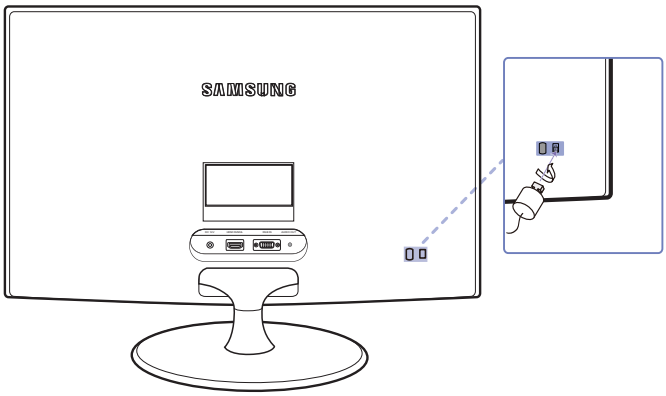
Specifications are subject to change without notice to improve quality.



- You can adjust the tilt of your monitor.
- Hold the lower part of the product and adjust the tilt carefully.

1.3.3 Anti-theft Lock

An anti-theft lock allows you to use the product securely even in public places. The locking device shape and locking method depend on the manufacturer. Refer to the user guide provided with your anti-theft locking device for details. The lock device is sold separately.



The color and shape of parts may differ from what is shown. Specifications are subject to change without notice to improve quality.

To lock an anti-theft locking device:

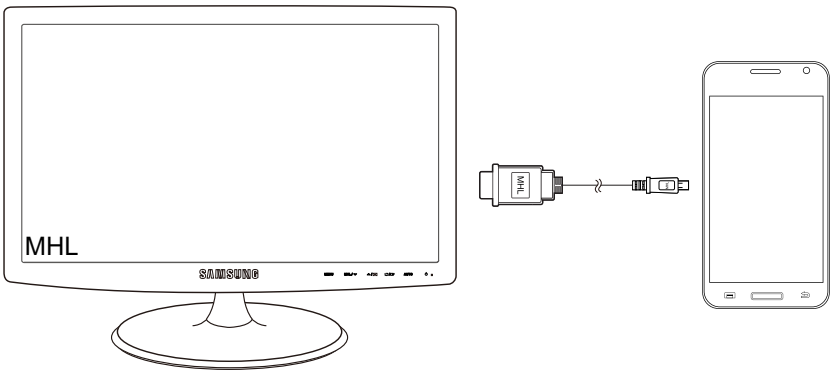
1. Fix the cable of your anti-theft locking device to a heavy object such as a desk.
2. Put one end of the cable through the loop on the other end.
3. Insert the locking device into the anti-theft lock slot at the back of the product.
4. Lock the locking device.

- An anti-theft locking device can be purchased separately.
- Refer to the user guide provided with your anti-theft locking device for details.
- Anti-theft locking devices can be purchased at electronics retailers or online.

2 Using "MHL(Mobile High-Definition Link)"

2.1 MHL (Mobile High-Definition Link)

This feature allows you to enjoy videos and photos (imported from a connected mobile device that supports **MHL**) on the screen of the product.

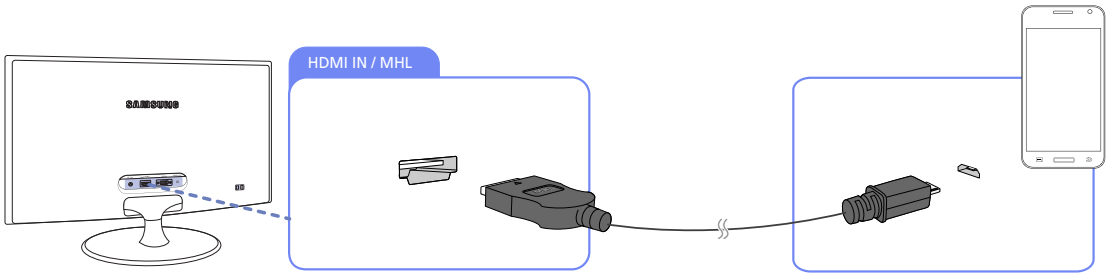


- To use the **MHL** function, you need an **MHL**-certified mobile device. You can check if your mobile device is MHL certified on the device manufacturer's website. To find a list of **MHL**-certified devices, visit the official **MHL** website (http://www.mhlconsortium.org).
- To use the **MHL** function, the latest version of software must be installed on the mobile device.
- On some mobile devices, the MHL function may not be available depending on the device's performance or functionality.
- Since the display size of the product is larger than those of mobile devices, the picture quality may degrade.
- This product is officially **MHL**-certified. If you encounter any problem when using the MHL function, please contact the manufacturer of the mobile device.
- The picture quality may degrade when content (imported from the mobile device) with a low resolution is played on the product.

Using "MHL(Mobile High-Definition Link)"

2.1.1 Using "MHL"

1 Connect the USB port on the mobile device to the [HDMI IN / MHL] port on the product using the **MHL** cable.

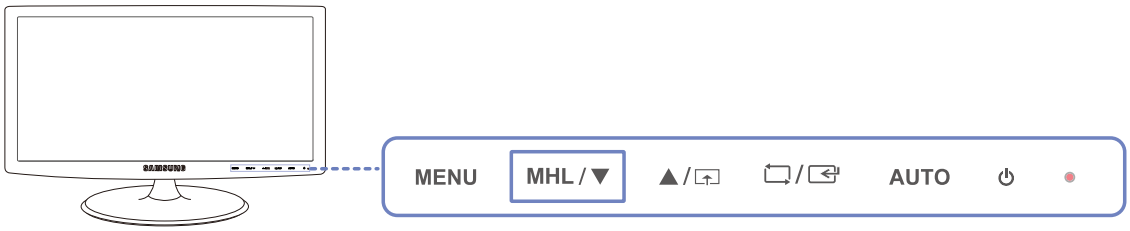


- When the **MHL** cable is used, [HDMI IN / MHL] is the only port on the product that supports the **MHL** function.
- A mobile device should be purchased separately.

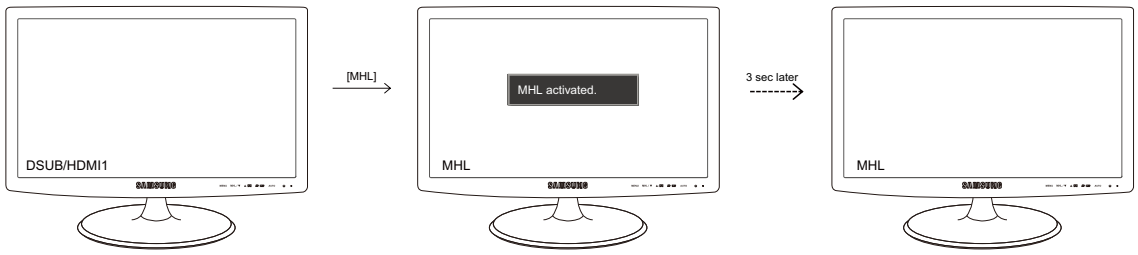
2 Connect the DC power adapter to the product and a power socket.

(For details, refer to "3.2 Connecting the Power".)

3 Press the [**MHL**] button to activate **MHL** mode.



4 If the following message appears, **MHL** mode is activated. And the **MHL** screen will be displayed.

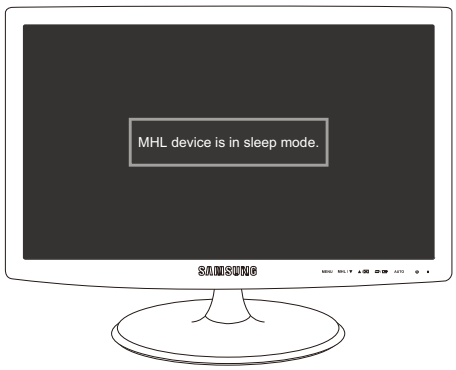


The indicated time 3 seconds (the waiting time before the MHL screen appears) may vary depending on the mobile device.

2 Using "MHL(Mobile High-Definition Link)"

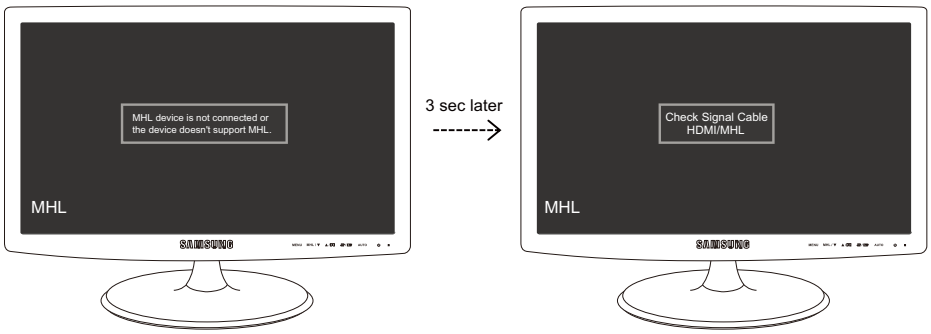
When the mobile device is in power-saving mode

When the mobile device is in sleep mode, the following message will appear in place of the MHL screen. To display the **MHL** screen, deactivate sleep mode.



When the mobile device is not connected or does not support MHL

- When the mobile device is not connected to the product or does not support the **MHL** function, the following message will appear.
- If **MHL** mode is not activated, check the connection of the mobile device.
- If **MHL** mode is not activated, check if the mobile device supports **MHL**.
- If **MHL** mode is not activated even though the mobile device supports MHL, update the firmware of the mobile device to the latest version.

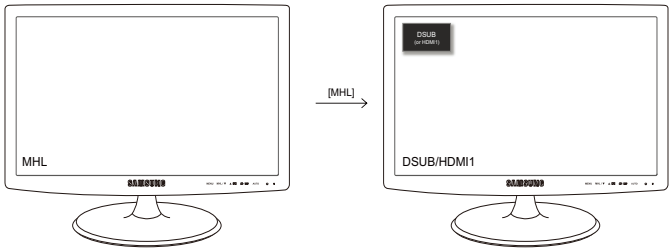


The indicated time 3 seconds (the waiting time before the MHL screen appears) may vary depending on the mobile device.

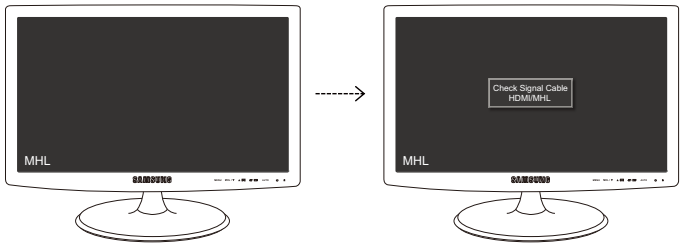
2.1.2 Disabling "MHL"

Disabling MHL by using the [MHL] button

When **MHL** is active, press the [**MHL**] button. The **MHL** function will be disabled.

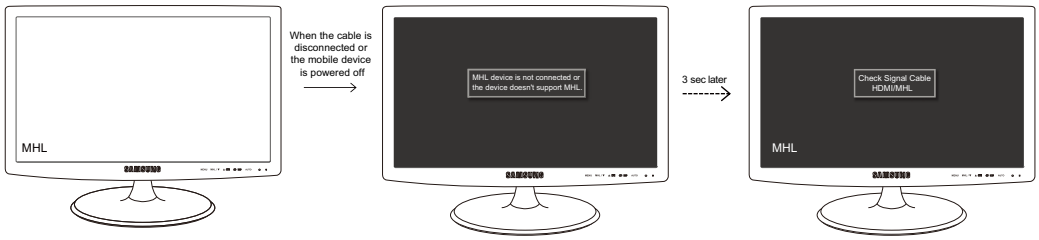


The input source changes automatically only when a cable is connected to a port other than [HDMI IN / MHL].



When the cable is disconnected or the mobile device is powered off

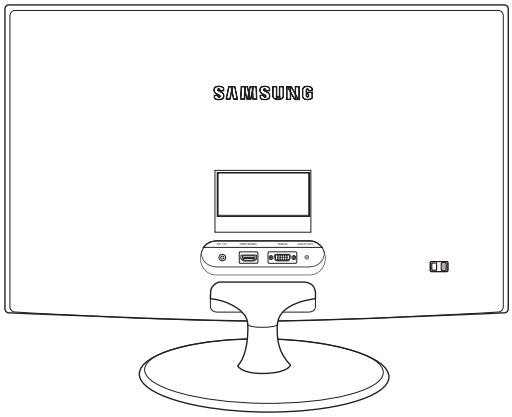
If the **MHL** cable is disconnected or the mobile device is powered off when **MHL** is active, the **MHL** function will be disabled.


MHL
When the cable is disconnected or the mobile device is powered off
MHL device is not connected or the device doesn't support MHL.
3 sec later
Check Signal Cable
HDMI/MHL
MHL

- If the MHL cable is disconnected, the product will display the message **Check Signal Cable** and remain in **MHL** mode.
- The indicated time 3 seconds (the waiting time before the MHL screen appears) may vary depending on the mobile device.

3 Connecting and Using a Source Device

3.1 Before Connecting

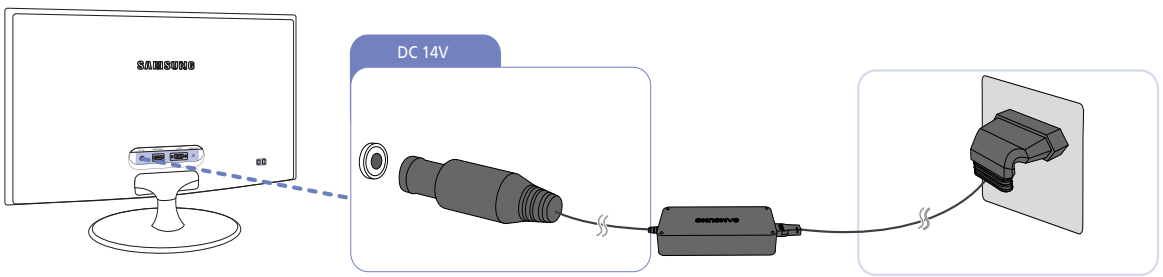


3.1.1 Pre-connection Checkpoints

- Before connecting a source device, read the user manual provided with it.
  The number and locations of ports on source devices may differ from device to device.
- Do not connect the power cable until all connections are completed.
  Connecting the power cable during connection may damage the product.
- Check the types of ports at the back of the product you want to connect.

3.2 Connecting the Power

- Connect the power adapter to [DC 14V] jack on the rear of the product.
  Connect the power cable to the DC power adapter. Next, connect the DC power adapter to the product.
  Plug in the power cable to the power socket.



The input voltage is switched automatically.

3.3 Connecting and Using a PC

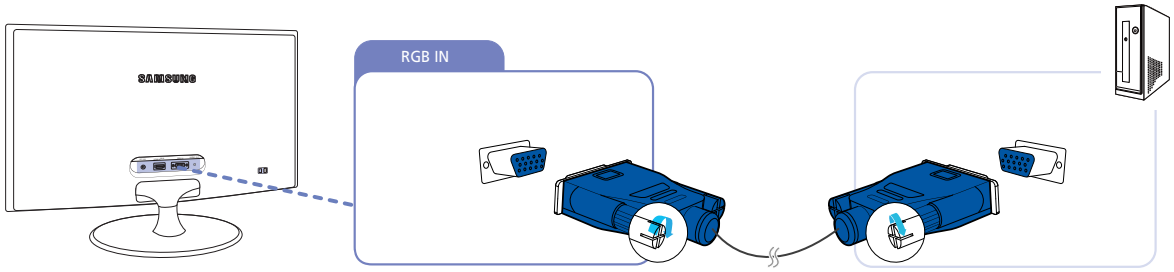
3.3.1 Connecting to a PC

Select a connection method suitable for your PC.

Connecting parts may differ in different products.

Connection Using the D-SUB Cable (Analogue Type)

Do not connect the power cable before connecting all other cables. Ensure you connect a source device first before connecting the power cable.



1 Connect the D-SUB cable to the [RGB IN] port on the back of the product and the RGB port on the PC.

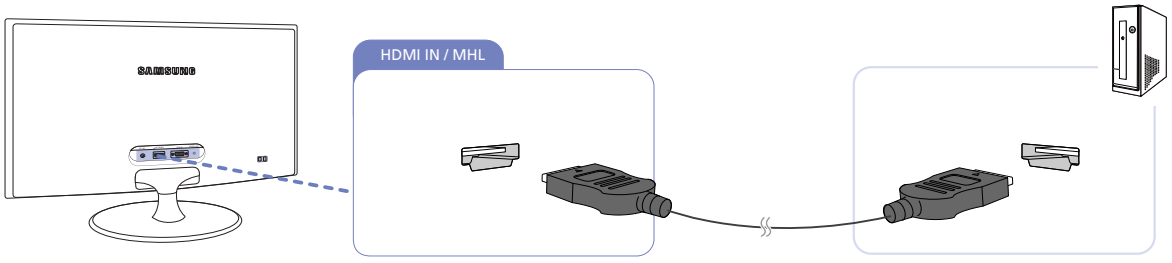
2 Connect the DC power adapter to the product and a power socket. Next, turn on the power switch on the PC.

(For details, refer to "3.2 Connecting the Power".)

3 Press [⏍/⏎] to change the input source to **Analog**.

Connection Using an HDMI Cable

Do not connect the power cable before connecting all other cables. Ensure you connect a source device first before connecting the power cable.



1 Connect the HDMI cable to the HDMI port on the back of the product and the HDMI port on the PC.

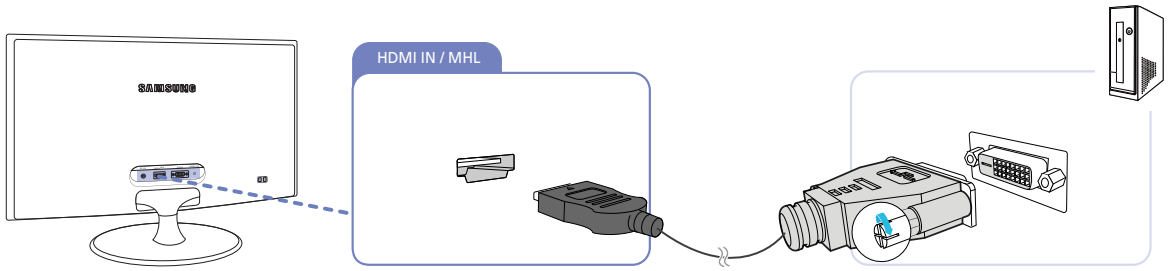
2 Connect the DC power adapter to the product and a power socket. Next, turn on the power switch on the PC.

(For details, refer to "3.2 Connecting the Power".)

3 Press the [⇄/⏎] button on the product to change the input source to **HDMI/MHL**.

Connection Using an HDMI-DVI Cable

Do not connect the power cable before connecting all other cables. Ensure you connect a source device first before connecting the power cable.

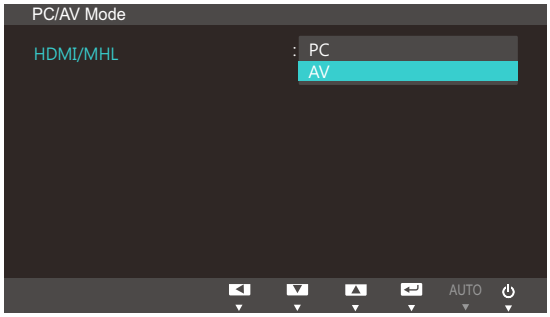


1 Connect the HDMI-DVI cable to the HDMI port on the back of the product and the DVI port on the PC.

2 Connect the DC power adapter to the product and a power socket. Next, turn on the power switch on the PC.

(For details, refer to "3.2 Connecting the Power".)

3 Press the [⇄/⏎] button on the product to change the input source to **HDMI/MHL**.

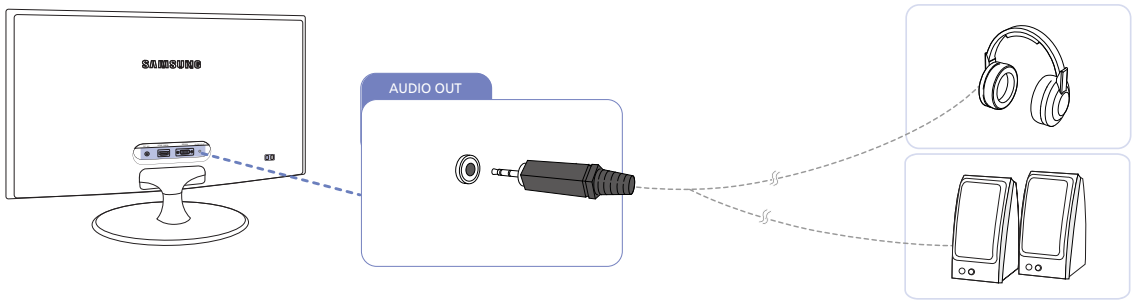


When connected to a PC using an HDMI to DVI cable, whether the sound through the Audio Out connection interface could be heard depends on the PC.

3.3.2 Connecting to Headphones or Speakers

Do not connect the power cable before connecting all other cables.

Ensure you connect a source device first before connecting the power cable.



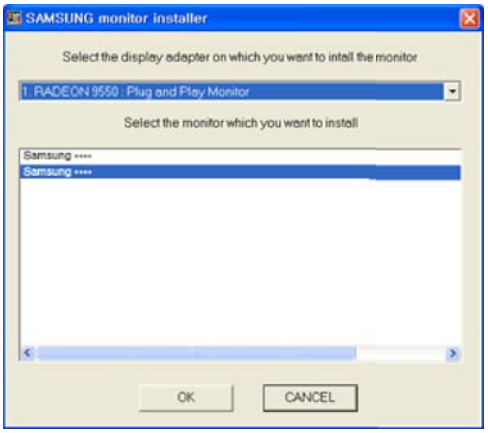
1 Connect an audio output device such as headphones or speakers to [AUDIO OUT] on the product.

This product won't make any sound when only the HDMI cable is connected without a speaker connected.

3.3.3 Driver Installation

- You can set the optimum resolution and frequency for this product by installing the corresponding drivers.
- An installation driver is contained on the CD supplied with the product.
- If the file provided is faulty, visit the Samsung homepage (http://www.samsung.com) and download the file.

1. Insert the user manual CD provided with the product into the CD-ROM drive.
2. Click "Windows Driver".
3. Complete the remaining software installation steps according to the instructions displayed on the screen.
4. Select your product model from the list of models.


SAMSUNG monitor installer
Select the display adapter on which you want to intall the monitor
1. RADEON 9550 : Plug and Play Monitor
Select the monitor which you want to install
Samsung ****
Samsung ****
OK
CANCEL

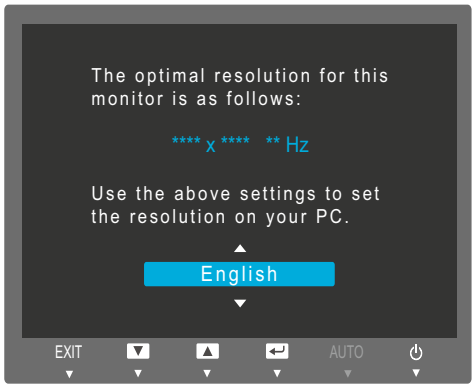
5. Go to Display Properties and check that the resolution and refresh rate are appropriate.

   Refer to your Windows OS manual for further details.

3.3.4 Setting Optimum Resolution

An information message about setting optimum resolution will appear if you power on the product for the first time after purchase.

Select a language on the product and change the resolution on your PC to the optimum setting.


The optimal resolution for this monitor is as follows:
**** x **** ** Hz
Use the above settings to set the resolution on your PC.
English
EXIT
AUTO

1 Press [▲/▼] to move to the language you want and press [⏎/⏎].

2 To hide the information message, press [MENU].

- If the optimum resolution is not selected, the message will appear up to three times for a specified time even when the product is turned off and on again.
- The optimum resolution can also be selected in **Control Panel** on your PC.

3.3.5 Changing the Resolution Using a PC

- Adjust the resolution and refresh rate in Control Panel on your PC to obtain optimum picture quality.
- The picture quality of TFT-LCDs may degrade if the optimum resolution is not selected.

Changing the Resolution on Windows XP

Go to **Control Panel** → **Display** → **Settings** and change the resolution.

1

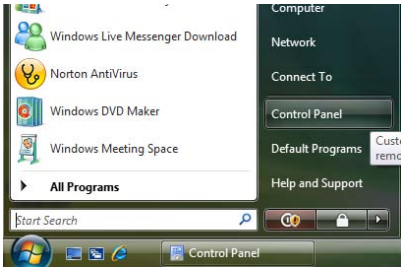
2

3

Changing the Resolution on Windows Vista

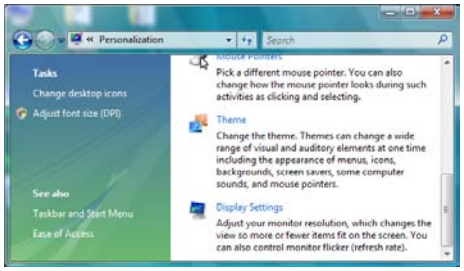
Go to **Control Panel** → **Personalization** → **Display Settings** and change the resolution.

1



2

3

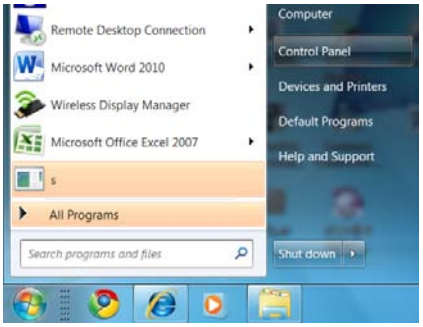

Personalization
Search
Tasks
Change desktop icons
Adjust font size (DPI)
See also
Taskbar and Start Menu
Ease of Access
Pick a different mouse pointer. You can also change how the mouse pointer looks during such activities as clicking and selecting.
Theme
Change the theme. Themes can change a wide range of visual and auditory elements at one time including the appearance of menus, icons, backgrounds, screen savers, some computer sounds, and mouse pointers.
Display Settings
Adjust your monitor resolution, which changes the view so more or fewer items fit on the screen. You can also control monitor flicker (refresh rate).

4

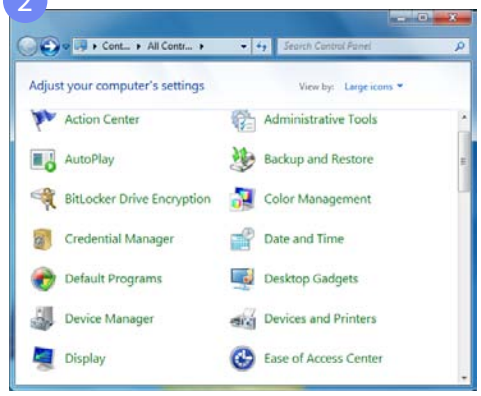
Changing the Resolution on Windows 7

Go to **Control Panel** → **Display** → **Screen Resolution** and change the resolution.

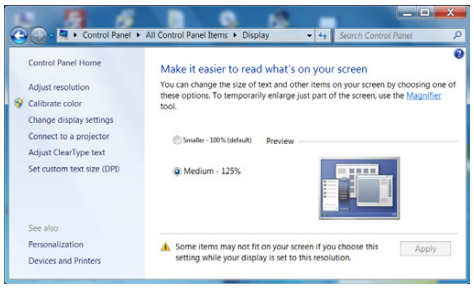
1



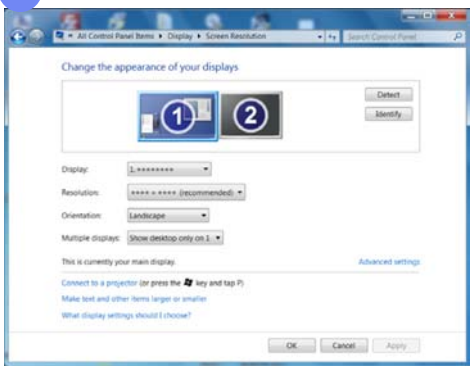
2



3



4

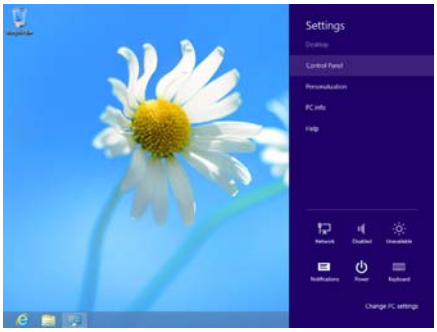


Changing the Resolution on Windows 8

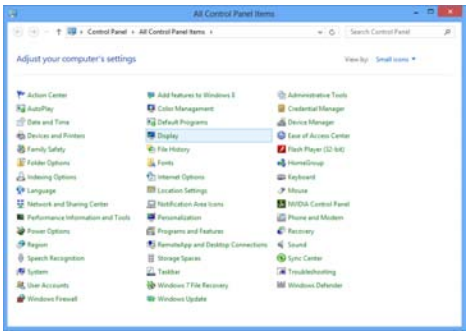
Go to **Settings** → **Control Panel** → **Display** → **Screen Resolution** and change the resolution.

1

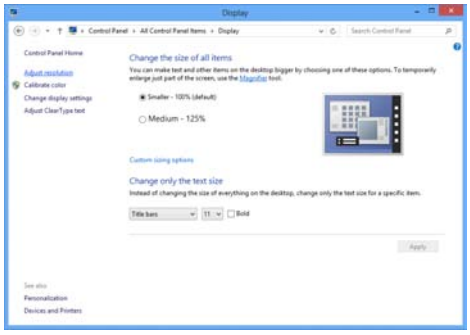
2



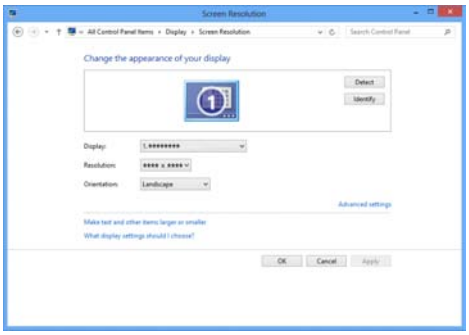
3



4



5



4 Screen Setup

Configure the screen settings such as brightness.

4.1 Brightness

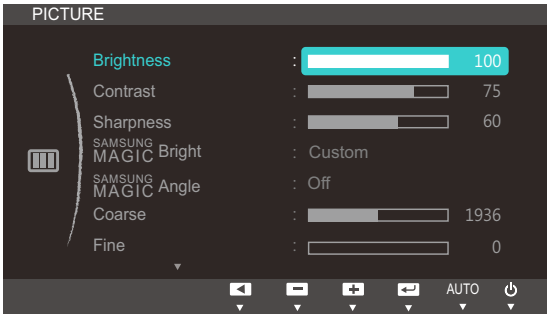
You can adjust the general brightness of the picture. (Range: 0~100)

A higher value will make the picture appear brighter.

- This menu is not available when SAMSUNG MAGIC **Bright** is set to **Dynamic Contrast** mode.
- Not available if **Eco Saving** is set to **On**.

4.1.1 Configuring Brightness

1. Press any button on the front of the product to display the Key Guide. Next, press [MENU] to display the corresponding menu screen.
2. Press [▲/▼] to move to **PICTURE** and press [⮌/⮎] on the product.
3. Press [▲/▼] to move to **Brightness** and press [⮌/⮎] on the product. The following screen will appear.



4. Adjust the **Brightness** using the [▲/▼] buttons.

4.2 Contrast

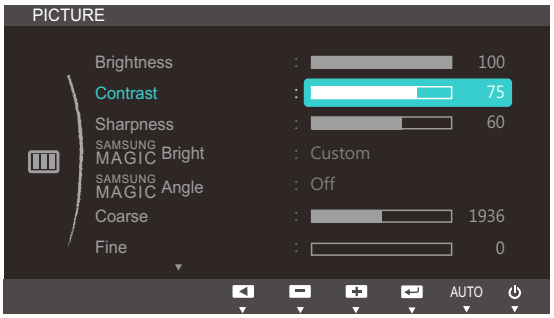
Adjust the contrast between the objects and background. (Range: 0~100)

A higher value will increase the contrast to make the object appear clearer.

- This menu is not available when SAMSUNG MAGIC**Bright** is in **Cinema** or **Dynamic Contrast** mode.
- This menu is not available when SAMSUNG MAGIC**Color** is in **Full** or **Intelligent** mode.

4.2.1 Configuring Contrast

1. Press any button on the front of the product to display the Key Guide. Next, press [MENU] to display the corresponding menu screen.
2. Press [▲/▼] to move to **PICTURE** and press [⏎] on the product.
3. Press [▲/▼] to move to **Contrast** and press [⏎] on the product. The following screen will appear.



4. Adjust the **Contrast** using the [▲/▼] buttons.

4.3 Sharpness

Make the outline of objects more clear or blurry. (Range: 0~100)

A higher value will make the outline of objects clearer.

- This menu is not available when SAMSUNG MAGIC**Bright** is in **Cinema** or **Dynamic Contrast** mode.
- This menu is not available when SAMSUNG MAGIC**Color** is in **Full** or **Intelligent** mode.

4.3.1 Configuring Sharpness

1. Press any button on the front of the product to display the Key Guide. Next, press [MENU] to display the corresponding menu screen.
2. Press [▲/▼] to move to **PICTURE** and press [⏎] on the product.
3. Press [▲/▼] to move to **Sharpness** and press [⏎] on the product. The following screen will appear.

4. Adjust the **Sharpness** using the [▲/▼] buttons.

4.4 SAMSUNG MAGIC Bright

This menu provides an optimum picture quality suitable for the environment where the product will be used.

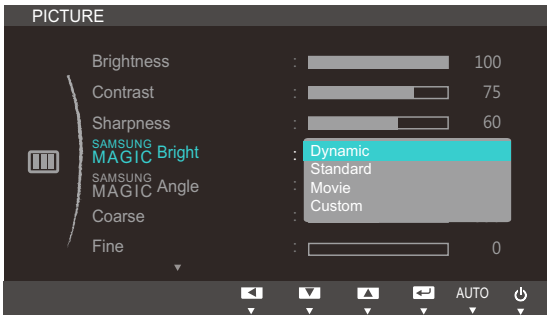
- Not available if **Eco Saving** is set to **On**.
- This menu is not available when **SAMSUNG MAGIC Angle** is enabled.

You can customize the brightness to suit your preferences.

4.4.1 Configuring SAMSUNG MAGIC Bright

1. Press any button on the front of the product to display the Key Guide.
   Next, press [**MENU**] to display the corresponding menu screen.
2. Press [▲/▼] to move to **PICTURE** and press [⏎] on the product.
3. Press [▲/▼] to move to **SAMSUNG MAGIC Bright** and press [⏎] on the product.
   The following screen will appear.

- **Custom**: Customize the contrast and brightness as required.
- **Standard**: Obtain a picture quality suitable for editing documents or using Internet.
- **Game**: Obtain a picture quality suitable for playing games that involve many graphic effects and dynamic movements.
- **Cinema**: Obtain the brightness and sharpness of TVs suitable for enjoying video and DVD content.
- **Dynamic Contrast**: Obtain balanced brightness through automatic contrast adjustment.



When the external input is connected through HDMI and **PC/AV Mode** is set to **AV**, **SAMSUNG MAGIC Bright** has four automatic picture settings (**Dynamic**, **Standard**, **Movie** and **Custom**) that are preset at the factory. You can activate either **Dynamic**, **Standard**, **Movie** or **Custom**. You can select **Custom** which automatically recalls your personalized picture settings.

- **Dynamic**: Select this mode to view a sharper image than in **Standard** mode.
- **Standard**: Select this mode when the surroundings are bright. This also provides a sharp image.
- **Movie**: Select this mode when the surroundings are dark. This will save power and reduce eye fatigue.
- **Custom**: Select this mode when you want to adjust the image according to your preferences.

4 Press [▲/▼] to move to the option you want and press [⏎].

5 The selected option will be applied.

4.5 SAMSUNG MAGIC Angle

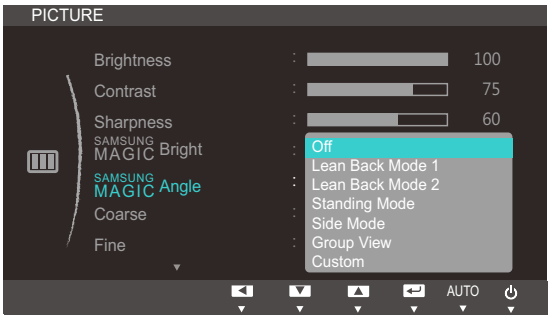
SAMSUNG MAGIC**Angle** allows you to configure the settings to obtain the optimum picture quality according to your viewing angle.

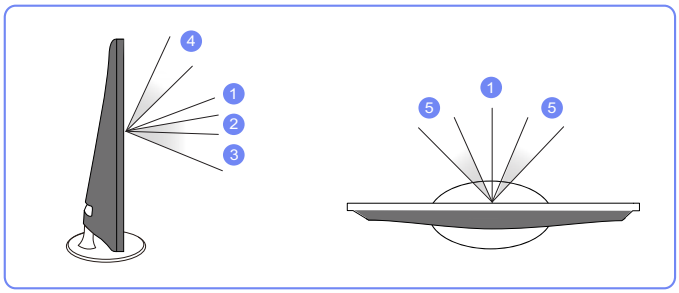
- This menu is not available when SAMSUNG MAGIC**Bright** is in **Cinema** or **Dynamic Contrast** mode.
- This menu is not available when SAMSUNG MAGIC**Color** is enabled.

You can customize the angle to suit your preferences.

4.5.1 Configuring SAMSUNG MAGIC Angle

1. Press any button on the front of the product to display the Key Guide.
   Next, press [MENU] to display the corresponding menu screen.
2. Press [▲/▼] to move to **PICTURE** and press [⏎] on the product.
3. Press [▲/▼] to move to SAMSUNG MAGIC**Angle** and press [⏎] on the product.
   The following screen will appear.





- **Off** ①: Select this option to view directly in front of the product.
- **Lean Back Mode 1** ②: Select this option to view from a place slightly lower than the product.
- **Lean Back Mode 2** ③: Select this option to view from a place lower than Lean Back Mode 1.
- **Standing Mode** ④: Select this option to view from a place higher than the product.
- **Side Mode** ⑤: Select this option to view from either side of the product.
- **Group View**: Select this option for more than one viewer to view from places ①, ④, and ⑤.
- **Custom**: **Lean Back Mode 1** will be applied by default if **Custom** is selected.

4 Press [▲/▼] to move to the option you want and press [⏎/⏎].

5 The selected option will be applied.

4.6 Coarse

Adjust the screen frequency.

This menu is available in **Analog** mode only.

4.6.1 Adjusting Coarse

1. Press any button on the front of the product to display the Key Guide. Next, press [MENU] to display the corresponding menu screen.
2. Press [▲/▼] to move to **PICTURE** and press [⏎] on the product.
3. Press [▲/▼] to move to **Coarse** and press [⏎] on the product. The following screen will appear.

4. Adjust the **Coarse** using the [▲/▼] buttons.

4.7 Fine

Fine-adjust the screen to obtain a vivid picture.

This menu is available in **Analog** mode only.

4.7.1 Adjusting Fine

1. Press any button on the front of the product to display the Key Guide. Next, press [MENU] to display the corresponding menu screen.
2. Press [▲/▼] to move to **PICTURE** and press [⏎] on the product.
3. Press [▲/▼] to move to **Fine** and press [⏎] on the product. The following screen will appear.

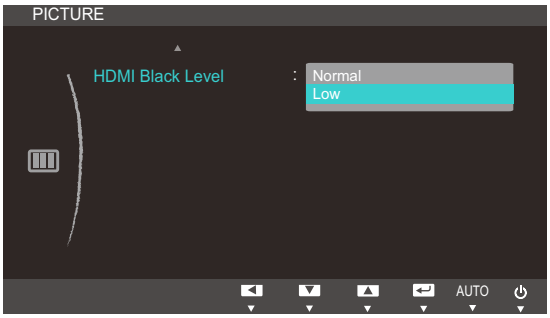
4. Adjust the **Fine** using the [▲/▼] buttons.

4.8 HDMI Black Level

If a DVD player or set-top box is connected to the product via HDMI, image quality degradation (contrast/color degradation, black level, etc.) may occur, depending on the connected source device. In such case, **HDMI Black Level** can be used to adjust the image quality. If this is the case, correct the degraded picture quality using **HDMI Black Level**.

4.8.1 Configuring the HDMI Black Level Settings

1. Press any button on the front of the product to display the Key Guide.
   Next, press [MENU] to display the corresponding menu screen.
2. Press [▲/▼] to move to **PICTURE** and press [⏎] on the product.
3. Press [▲/▼] to move to **HDMI Black Level** and press [⏎] on the product.
   The following screen will appear.



- **Normal**: Select this mode when there is no contrast ratio degradation.
- **Low**: Select this mode to reduce the black level and increase the white level when there is a contrast ratio degradation.

4. Press [▲/▼] to move to the option you want and press [⏎].
5. The selected option will be applied.

HDMI Black Level may not be compatible with some source devices.

5 Configuring Tint

Adjust the tint of the screen. This menu is not available when SAMSUNG MAGICBright is set to Cinema or Dynamic Contrast mode.

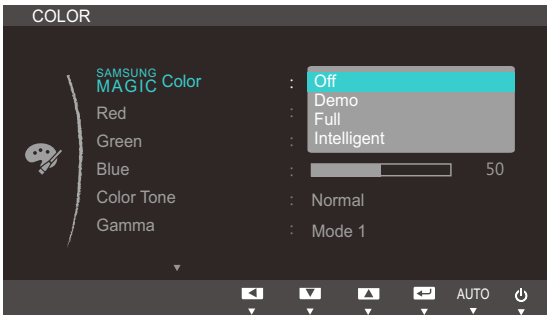
5.1 SAMSUNG MAGIC Color

SAMSUNG MAGICColor is a new picture-quality improvement technology developed independently by Samsung, which delivers vivid natural colors without picture quality degradation.

This menu is not available when SAMSUNG MAGICAngle is enabled.

5.1.1 Configuring SAMSUNG MAGIC Color

1. Press any button on the front of the product to display the Key Guide.
   Next, press [MENU] to display the corresponding menu screen.
2. Press [▲/▼] to move to COLOR and press [⏎] on the product.
3. Press [▲/▼] to move to SAMSUNG MAGICColor and press [⏎] on the product.
   The following screen will appear.



- Off: Disable SAMSUNG MAGICColor.
- Demo: Compare normal screen mode with SAMSUNG MAGICColor mode.
- Full: Obtain a vivid picture quality for all areas including the flesh colors in the picture.
- Intelligent: Improve the chroma for all areas except the flesh colors in the picture.

4. Press [▲/▼] to move to the option you want and press [⏎].
5. The selected option will be applied.

5.2 Red

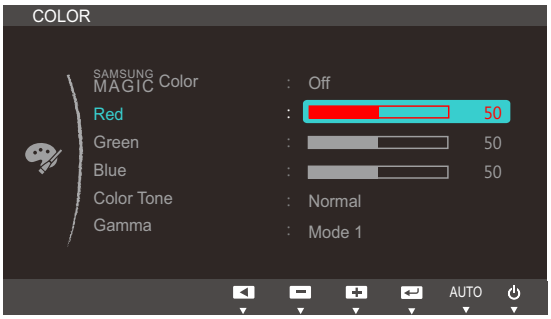
Adjust the value of the color red in the picture. (Range: 0~100)

A higher value will increase the intensity of the color.

This menu is not available when SAMSUNG MAGIC**Color** is in **Full** or **Intelligent** mode.

5.2.1 Configuring Red

1. Press any button on the front of the product to display the Key Guide. Next, press [MENU] to display the corresponding menu screen.
2. Press [▲/▼] to move to **COLOR** and press [⏎] on the product.
3. Press [▲/▼] to move to **Red** and press [⏎] on the product. The following screen will appear.



4. Adjust the **Red** using the [▲/▼] buttons.

5.3 Green

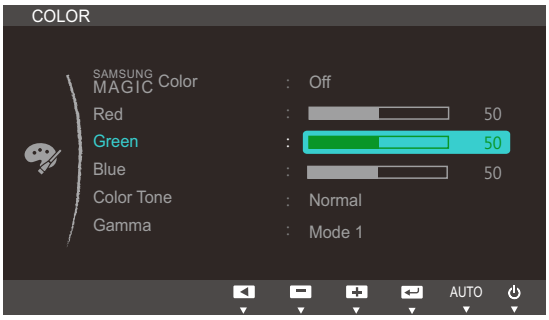
Adjust the value of the color green in the picture. (Range: 0~100)

A higher value will increase the intensity of the color.

This menu is not available when SAMSUNG MAGIC**Color** is in **Full** or **Intelligent** mode.

5.3.1 Configuring Green

1. Press any button on the front of the product to display the Key Guide. Next, press [**MENU**] to display the corresponding menu screen.
2. Press [▲/▼] to move to **COLOR** and press [⏎] on the product.
3. Press [▲/▼] to move to **Green** and press [⏎] on the product. The following screen will appear.



4. Adjust the **Green** using the [▲/▼] buttons.

5.4 Blue

Adjust the value of the color blue in the picture. (Range: 0~100)

A higher value will increase the intensity of the color.

This menu is not available when SAMSUNG MAGIC**Color** is in **Full** or **Intelligent** mode.

5.4.1 Configuring Blue

1. Press any button on the front of the product to display the Key Guide. Next, press [**MENU**] to display the corresponding menu screen.
2. Press [▲/▼] to move to **COLOR** and press [⏎] on the product.
3. Press [▲/▼] to move to **Blue** and press [⏎] on the product. The following screen will appear.

4. Adjust the **Blue** using the [▲/▼] buttons.

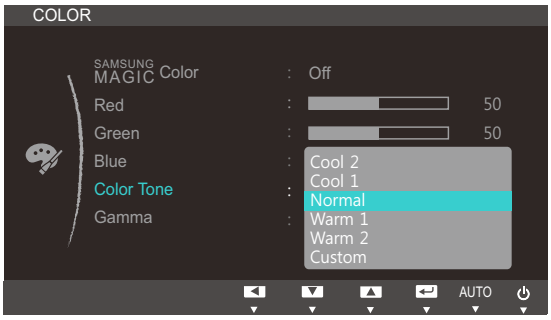
5.5 Color Tone

Adjust the general color tone of the picture.

- This menu is not available when SAMSUNG MAGIC**Color** is in **Full** or **Intelligent** mode.
- This menu is not available when SAMSUNG MAGIC**Angle** is enabled.

5.5.1 Configuring the Color Tone Settings

1. Press any button on the front of the product to display the Key Guide. Next, press [MENU] to display the corresponding menu screen.
2. Press [▲/▼] to move to **COLOR** and press [⏎] on the product.
3. Press [▲/▼] to move to **Color Tone** and press [⏎] on the product. The following screen will appear.



- **Cool 2**: Set the color temperature to be cooler than **Cool 1**.
- **Cool 1**: Set the color temperature to be cooler than **Normal** mode.
- **Normal**: Display the standard color tone.
- **Warm 1**: Set the color temperature to be warmer than **Normal** mode.
- **Warm 2**: Set the color temperature to be warmer than **Warm 1**.
- **Custom**: Customize the color tone.

When the external input is connected through HDMI and **PC/AV Mode** is set to **AV**,**Color Tone** has four color temperature settings (**Cool**, **Normal**, **Warm** and **Custom**).

4. Press [▲/▼] to move to the option you want and press [⏎].
5. The selected option will be applied.

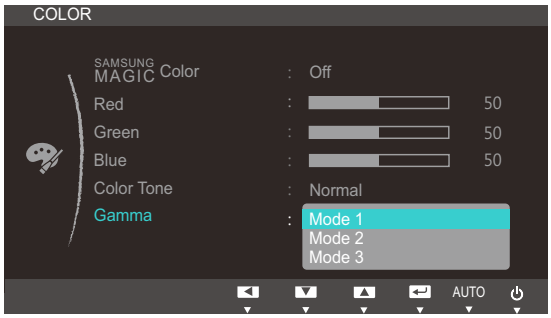
5.6 Gamma

Adjust the mid-range brightness (Gamma) of the picture.

This menu is not available when SAMSUNG MAGIC Angle is enabled.

5.6.1 Configuring Gamma

1. Press any button on the front of the product to display the Key Guide. Next, press [MENU] to display the corresponding menu screen.
2. Press [▲/▼] to move to **COLOR** and press [⏎] on the product.
3. Press [▲/▼] to move to **Gamma** and press [⏎] on the product. The following screen will appear.



4. Press [▲/▼] to move to the option you want and press [⏎].
5. The selected option will be applied.

6.1 H-Position & V-Position

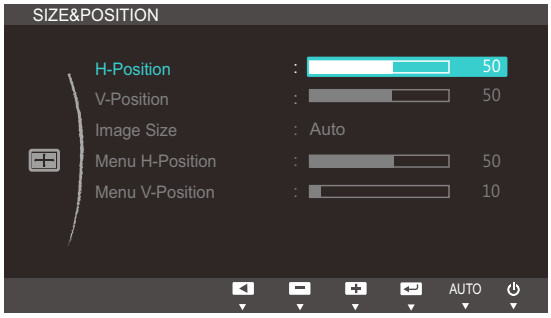
H-Position: Move the screen to the left or right.

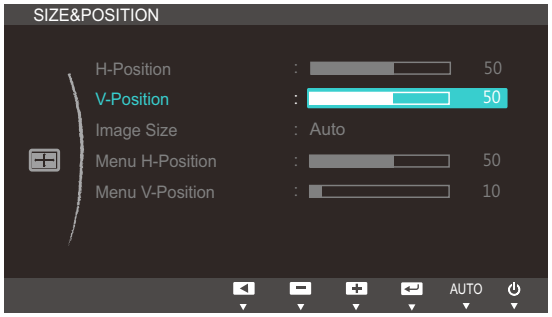
V-Position: Move the screen up or down.

- Available only when **Image Size** is set to **Screen Fit**.
- This menu is available in **Analog** mode only.
- When a 720P or 1080P signal is input in AV mode, select **Screen Fit** to adjust horizontal position in 0-6 levels. (The S22B360VW model does not support 1080p.)

6.1.1 Configuring H-Position & V-Position

1. Press any button on the front of the product to display the Key Guide.
   Next, press [MENU] to display the corresponding menu screen.
2. Press [▲/▼] to move to **SIZE&POSITION** and press [⏎] on the product.
3. Press [▲/▼] to move to **H-Position** or **V-Position**, and press [⏎].
   The following screen will appear.





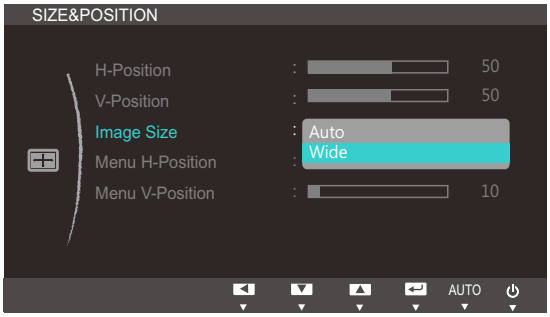
4. Press [▲/▼] to configure **H-Position** or **V-Position**.

6.2 Image Size

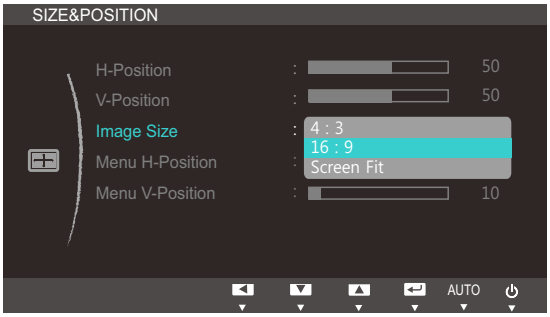
Change the picture size.

6.2.1 Changing the Image Size

1. Press any button on the front of the product to display the Key Guide.
   Next, press [MENU] to display the corresponding menu screen.
2. Press [▲/▼] to move to **SIZE&POSITION** and press [⏎] on the product.
3. Press [▲/▼] to move to **Image Size** and press [⏎] on the product.
   The following screen will appear.



- **Auto**: Display the picture according to the aspect ratio of the input source.
- **Wide**: Display the picture in full screen regardless of the aspect ratio of the input source.



- **4:3**: Display the picture with an aspect ratio of 4:3. Suitable for videos and standard broadcasts.
- **16:9**: Display the picture with an aspect ratio of 16:9 Suitable for DVD content or widescreen broadcasts.
- **Screen Fit**: Display the picture with the original aspect ratio without cutting off.

- **4:3**: Display the picture with an aspect ratio of 4:3. Suitable for videos and standard broadcasts.
- **Wide**: Display the picture in full screen regardless of the aspect ratio of the input source.
- **Screen Fit**: Display the picture with the original aspect ratio without cutting off.

Changing the screen size is available when the following conditions are satisfied.

- A digital output device is connected using the HDMI cable.
- The input signal is 480p, 576p, 720p, or 1080p. (The S22B360VW model does not support 1080p.)
- This can only be set when the external input is connected through HDMI and **PC/AV Mode** is set to **AV**.

4 Press [▲/▼] to move to the option you want and press [⏎].

5 The selected option will be applied.

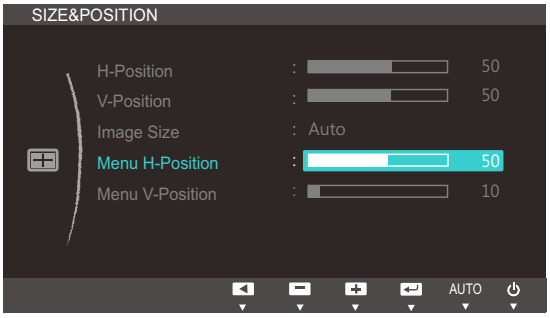
6.3 Menu H-Position & Menu V-Position

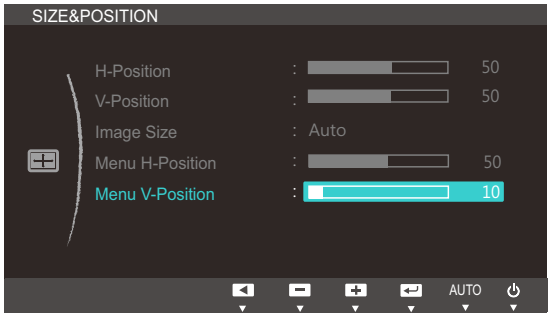
Menu H-Position: Move the menu position to the left or right.

Menu V-Position: Move the menu position up or down.

6.3.1 Configuring Menu H-Position & Menu V-Position

1. Press any button on the front of the product to display the Key Guide.
   Next, press [MENU] to display the corresponding menu screen.
2. Press [▲/▼] to move to **SIZE&POSITION** and press [⏎] on the product.
3. Press [▲/▼] to move to **Menu H-Position** or **Menu V-Position**, and press [⏎].
   The following screen will appear.





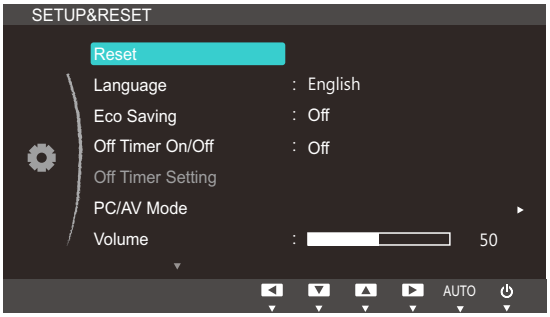
4. Press [▲/▼] to configure **Menu H-Position** or **Menu V-Position**.

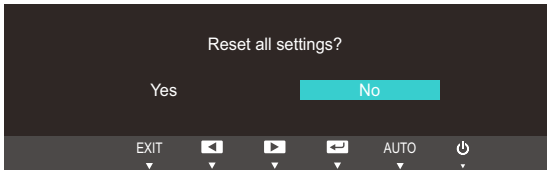
7.1 Reset

Return all the settings for the product to the default factory settings.

7.1.1 Initializing Settings (Reset)

1. Press any button on the front of the product to display the Key Guide.
   Next, press [MENU] to display the corresponding menu screen.
2. Press [▲/▼] to move to **SETUP&RESET** and press [⮌/⮎] on the product.
3. Press [▲/▼] to move to **Reset** and press [⮌/⮎] on the product.
   The following screen will appear.





4. Press [▲/▼] to move to the option you want and press [⮌/⮎].
5. The selected option will be applied.

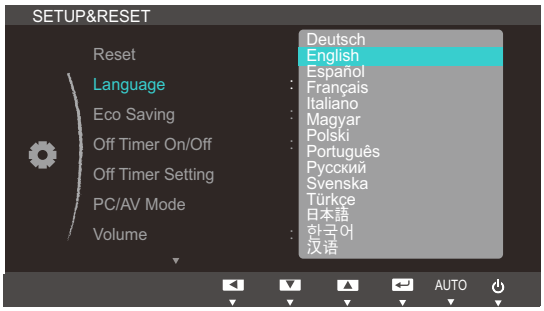
7.2 Language

Set the menu language.

- A change to the language setting will only be applied to the onscreen menu display.
- It will not be applied to other functions on your PC.

7.2.1 Configuring Language

1. Press any button on the front of the product to display the Key Guide.
   Next, press [MENU] to display the corresponding menu screen.
2. Press [▲/▼] to move to **SETUP&RESET** and press [⏎] on the product.
3. Press [▲/▼] to move to **Language** and press [⏎] on the product.
   The following screen will appear.



4. Press [▲/▼] to move to the language you want and press [⏎].
5. The selected option will be applied.

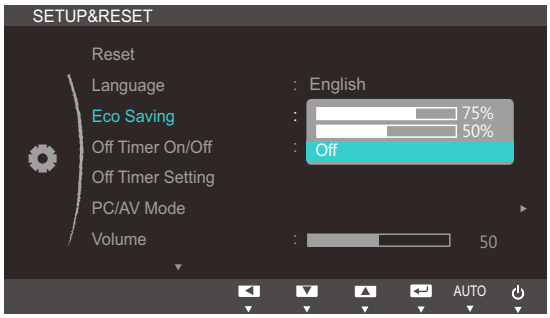
7.3 Eco Saving

The **Eco Saving** function reduces power consumption by controlling the electric current used by the monitor panel.

This menu is not available when SAMSUNG MAGIC**Bright** is in **Dynamic Contrast** mode.

7.3.1 Configuring Eco Saving

1. Press any button on the front of the product to display the Key Guide.
   Next, press [MENU] to display the corresponding menu screen.
2. Press [▲/▼] to move to **SETUP&RESET** and press [⮌/⏎] on the product.
3. Press [▲/▼] to move to **Eco Saving** and press [⮌/⏎] on the product.
   The following screen will appear.



- **75%** : Change the monitor power consumption to 75% of the default level.
- **50%** : Change the monitor power consumption to 50% of the default level.
- **Off**: Deactivate the **Eco Saving** function.

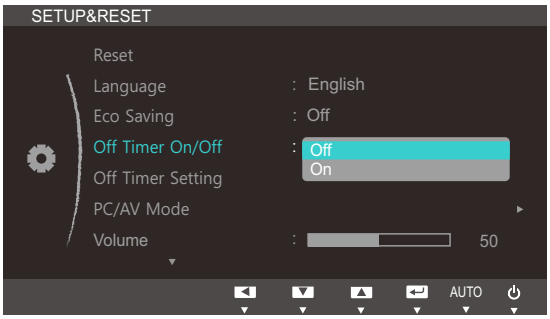
4. Press [▲/▼] to move to the option you want and press [⮌/⏎].
5. The selected option will be applied.

7.4 Off Timer On/Off

You can set the product to automatically turn off.

7.4.1 Configuring Off Timer On/Off

1. Press any button on the front of the product to display the Key Guide.
   Next, press [MENU] to display the corresponding menu screen.
2. Press [▲/▼] to move to **SETUP&RESET** and press [⏎] on the product.
3. Press [▲/▼] to move to **Off Timer On/Off** and press [⏎] on the product.
   The following screen will appear.



- **Off**: Deactivate the off timer so that the product does not power off automatically.
- **On**: Activate the off timer so that the product powers off automatically.

4. Press [▲/▼] to move to the option you want and press [⏎].
5. The selected option will be applied.

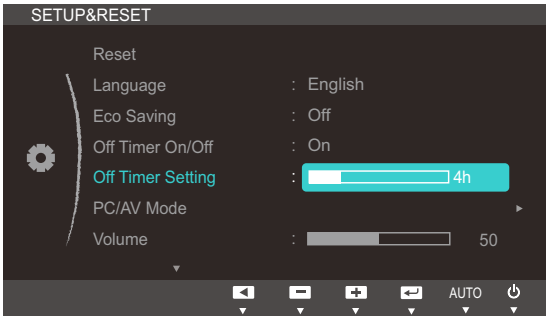
7.5 Off Timer Setting

The off timer can be set within a range of 1 to 23 hours. The product will automatically power off after the specified number of hours.

This menu is available only when **Off Timer On/Off** is set to **On**.

7.5.1 Configuring Off Timer Setting

1. Press any button on the front of the product to display the Key Guide.
   Next, press [MENU] to display the corresponding menu screen.
2. Press [▲/▼] to move to **SETUP&RESET** and press [⮌/⮎] on the product.
3. Press [▲/▼] to move to **Off Timer Setting** and press [⮌/⮎] on the product.
   The following screen will appear.



4. Press [▲/▼] to configure **Off Timer Setting**.

For products for the market in Europe, the **Off Timer On/Off** is set to automatically activate 4 hours after the product powers on. This is done in accordance with power supply regulations. If you do not want the timer to activate, go to **MENU** → **SETUP&RESET** and set **Off Timer On/Off** to **Off**.

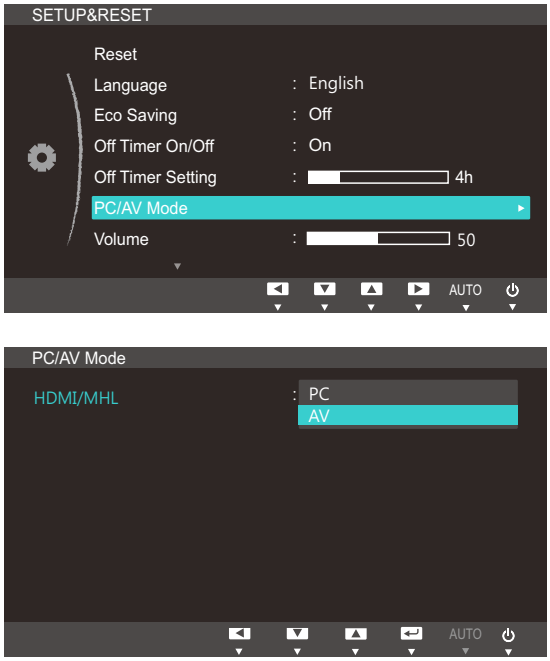
7.6 PC/AV Mode

Set **PC/AV Mode** to **AV**. The picture size will be enlarged. This option is useful when you view a movie.

- This function does not support **Analog** mode.
- Supplied for the wide models only such as 16:9 or 16:10.
- If the monitor (when set to HDMI) is in power saving mode or is displaying the message **Check Signal Cable**, press the **MENU** button to display the On Screen Display (OSD). You can select **PC** or **AV**.

7.6.1 Configuring PC/AV Mode

1. Press any button on the front of the product to display the Key Guide.
   Next, press [MENU] to display the corresponding menu screen.
2. Press [▲/▼] to move to **SETUP&RESET** and press [⏎] on the product.
3. Press [▲/▼] to move to **PC/AV Mode** and press [⏎] on the product.
   The following screen will appear.



- Set to PC when connected to a PC.
- Set to AV when connected to an AV device.
- When connected to a PC using an HDMI to DVI cable, whether the sound through the Audio Out connection interface could be heard depends on the PC.

4. Press [▲/▼] to move to the option you want and press [⏎].
5. The selected option will be applied.

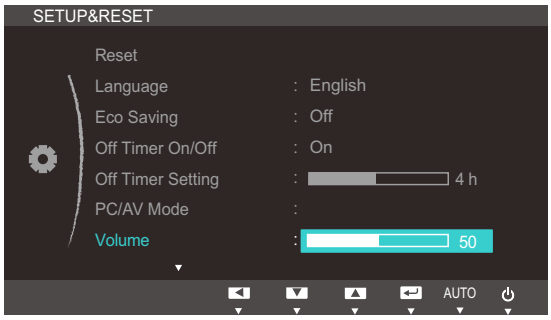
7.7 Volume

When connected to an audio output device, such as headset, press [▲/▼] to adjust the volume.

Available only in **HDMI** mode.

7.7.1 Configuring Volume

1. Press any button on the front of the product to display the Key Guide.
   Next, press [MENU] to display the corresponding menu screen.
2. Press [▲/▼] to move to **SETUP&RESET** and press [⮌/⮎] on the product.
3. Press [▲/▼] to move to **Volume** and press [⮌/⮎] on the product.
   The following screen will appear.



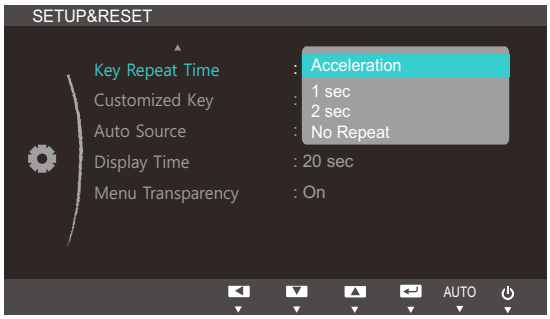
4. Adjust the **Volume** using the [▲/▼] buttons.

7.8 Key Repeat Time

Control the response rate of a button when the button is pressed.

7.8.1 Configuring Key Repeat Time

1. Press any button on the front of the product to display the Key Guide.
   Next, press [MENU] to display the corresponding menu screen.
2. Press [▲/▼] to move to **SETUP&RESET** and press [⮌/⏎] on the product.
3. Press [▲/▼] to move to **Key Repeat Time** and press [⮌/⏎] on the product.
   The following screen will appear.



- **Acceleration**, **1 sec**, or **2 sec** can be selected. If **No Repeat** is selected, a command responds only once when a button is pressed.

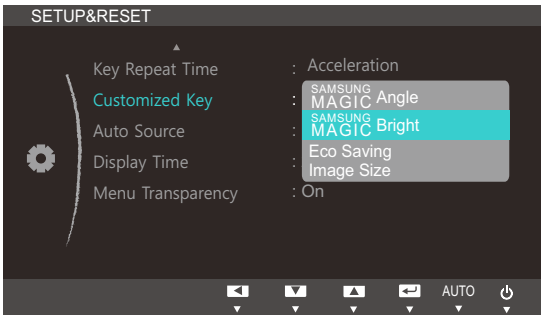
4. Press [▲/▼] to move to the option you want and press [⮌/⏎].
5. The selected option will be applied.

7.9 Customized Key

You can customize **Customized Key** as follows.

7.9.1 Configuring Customized Key

1. Press any button on the front of the product to display the Key Guide.
   Next, press [MENU] to display the corresponding menu screen.
2. Press [▲/▼] to move to **SETUP&RESET** and press [⮌/⮑] on the product.
3. Press [▲/▼] to move to **Customized Key** and press [⮌/⮑] on the product.
   The following screen will appear.



- SAMSUNG MAGIC**Angle** - SAMSUNG MAGIC**Bright** - **Eco Saving** - **Image Size**

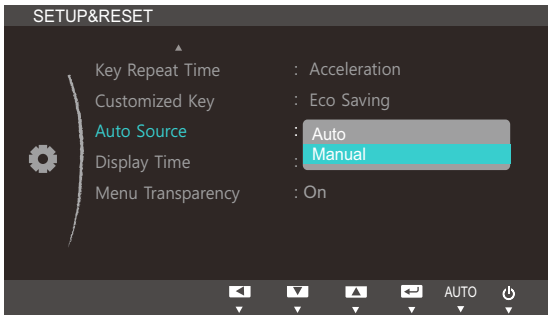
4. Press [▲/▼] to move to the option you want and press [⮌/⮑].
5. The selected option will be applied.

7.10 Auto Source

You can activate **Auto Source**.

7.10.1 Configuring Auto Source

1. Press any button on the front of the product to display the Key Guide.
   Next, press [MENU] to display the corresponding menu screen.
2. Press [▲/▼] to move to **SETUP&RESET** and press [⏎] on the product.
3. Press [▲/▼] to move to **Auto Source** and press [⏎] on the product.
   The following screen will appear.



- **Auto**: The input source is automatically recognized.
- **Manual**: Manually select an input source.

4. Press [▲/▼] to move to the option you want and press [⏎].
5. The selected option will be applied.

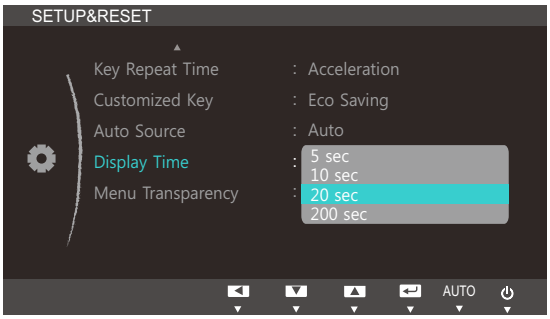
7.11 Display Time

Set the on-screen display (OSD) menu to automatically disappear if the menu is not used for a specified period of time.

Display Time can be used to specify the time after which you want the OSD menu to disappear.

7.11.1 Configuring Display Time

1. Press any button on the front of the product to display the Key Guide.
   Next, press [MENU] to display the corresponding menu screen.
2. Press [▲/▼] to move to **SETUP&RESET** and press [⮌/⏎] on the product.
3. Press [▲/▼] to move to **Display Time** and press [⮌/⏎] on the product.
   The following screen will appear.



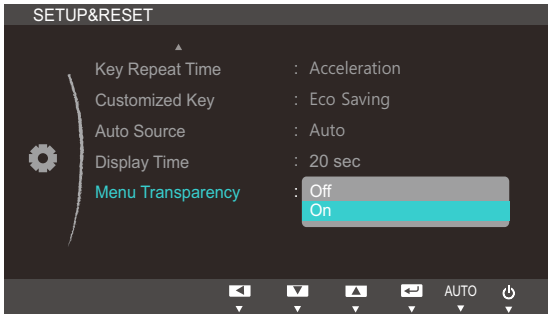
4. Press [▲/▼] to move to the option you want and press [⮌/⏎].
5. The selected option will be applied.

7.12 Menu Transparency

Set the transparency for the menu windows:

7.12.1 Changing Menu Transparency

1. Press any button on the front of the product to display the Key Guide.
   Next, press [MENU] to display the corresponding menu screen.
2. Press [▲/▼] to move to **SETUP&RESET** and press [⮌/⮑] on the product.
3. Press [▲/▼] to move to **Menu Transparency** and press [⮌/⮑] on the product.
   The following screen will appear.



4. Press [▲/▼] to move to the option you want and press [⮌/⮑].
5. The selected option will be applied.

8.1 INFORMATION

View the current input source, frequency and resolution.

8.1.1 Displaying INFORMATION

1 Press any button on the front of the product to display the Key Guide. Next, press [**MENU**] to display the corresponding menu screen.

2 Press [▲/▼] to move to **INFORMATION**. The current input source, frequency and resolution will appear.

The displayed menu items may vary depending on the model.

9.1 MagicTune

9.1.1 What is "MagicTune"?

"MagicTune" is a software program that helps with monitor adjustments by providing comprehensive descriptions of monitor functions and easy-to-understand guidelines.

You can adjust the product with the mouse and the keyboard without using the operating buttons of the product.

9.1.2 Installing the Software

1. Insert the installation CD into the CD-ROM drive.
2. Select the "MagicTune" setup program.

   If the pop-up screen for the software installation does not appear on the main screen, find and double-click the "MagicTune" setup file on the CD-ROM.
3. Select the installation language and click [**Next**].
4. Complete the remaining software installation steps according to the instructions displayed on the screen.

- The software may not work properly if you do not restart the computer after the installation.
- The "MagicTune" icon may not appear depending on the computer system and the product specifications.
- If the shortcut icon does not appear, press the F5 key.

Restrictions and Problems with the Installation ("MagicTune™")

The installation of "MagicTune™" may be affected by the graphics card, motherboard and the networking environment.

System Requirements

OS

- Windows XP, Windows Vista, Windows 7, Windows 8

9.1.3 Removing the Software

You can only remove "MagicTune™" through [**Add or Remove Programs**] in Windows.

To remove "MagicTune™", complete the following steps.

1. Click [**Start**] select [**Settings**], and select [**Control Panel**] from the menu.
   For Windows XP, click [**Start**], and select [**Control Panel**] from the menu.
2. Double-click the [**Add or Remove Programs**] icon in the Control Panel.
3. In the [**Add/Remove**] window, find and select "MagicTune™" so that it is highlighted.
4. Click [**Change or Remove Programs**] to remove the software.
5. Select [**Yes**] to start removing "MagicTune™".
6. Wait until a message box appears informing you that the software has been removed completely.

> For technical support, the FAQ (frequently asked questions) or information about the software upgrade for "MagicTune™", please visit our website.

9.2 MultiScreen

MultiScreen

MultiScreen enables users to use the monitor by partitioning multiple sections.

9.2.1 Installing the Software

1. Insert the installation CD into the CD-ROM drive.
2. Select the "MultiScreen" setup program.

   If the pop-up screen for the software installation does not appear on the main screen, find and double-click the "MultiScreen" setup file on the CD-ROM.

3. When the Installation Wizard appears, click [**Next**].
4. Complete the remaining software installation steps according to the instructions displayed on the screen.

   - The software may not work properly if you do not restart the computer after the installation.
   - The "MultiScreen" icon may not appear depending on the computer system and the product specifications.
   - If the shortcut icon does not appear, press the F5 key.

Restrictions and Problems with the Installation ("MultiScreen")

The installation of "MultiScreen" may be affected by the graphics card, motherboard and the networking environment.

Operating System

OS

- Windows™ 2000
- Windows XP Home Edition
- Windows XP Professional
- Windows Vista 32Bit
- Windows 7 32Bit
- Windows 8 32Bit

For "MultiScreen", the operating systems Windows 2000 or later is recommended.

Hardware

- At least 32MB of memory
- At least 60MB of free space on the hard disk drive

9.2.2 Removing the Software

Click [**Start**], select [**Settings**]/[**Control Panel**], and then double-click [**Add or Remove Programs**].

Select "MultiScreen" from the program list and click the [**Add/Delete**] button.

10 Troubleshooting Guide

10.1 Requirements Before Contacting Samsung Customer Service Center

10.1.1 Testing the Product

Before calling Samsung Customer Service Center, test your product as follows. If the problem persists, contact Samsung Customer Service Center.

Check if your product is operating normally by using the product test function.

If the screen is turned off and the power indicator blinks even though the product is properly connected to a PC, perform a self-diagnosis test.

1. Power off both the PC and product.
2. Disconnect the cables from the product.
3. Power on the product.
4. If the message **Check Signal Cable** appears, the product is working normally.

   If the screen remains blank, check the PC system, video controller and cable.

10.1.2 Checking the Resolution and Frequency

For a mode that exceeds the supported resolution (refer to "11.3 Standard Signal Mode Table"), the message **Not Optimum Mode** will appear for a short time.

10.1.3 Check the following.

Installation issue (PC mode)	
The screen keeps switching on and off.	Check the cable connection between the product and PC, and ensure the connectors are locked. (Refer to "3.3 Connecting and Using a PC")

Screen issue	
The power LED is off. The screen will not switch on.	Check that the power cable is connected properly. (Refer to "3.3 Connecting and Using a PC")
The message **Check Signal Cable** appears.	Check that the cable is properly connected to the product. (Refer to "3.3 Connecting and Using a PC")
	Check that the device connected to the product is powered on.

Screen issue	
Not Optimum Mode is displayed.	This message appears when the signal from the graphics card exceeds the maximum resolution or frequency for the product.
	Change the maximum resolution and frequency to suit the product performance, referring to Standard Signal Mode Table (page 85).
The images on the screen look distorted.	Check the cable connection to the product (Refer to "3.3 Connecting and Using a PC")
The screen is not clear. The screen is blurry.	Adjust **Coarse**(page 47) and **Fine**(page 48).
	Remove any accessories (video extension cable, etc.) and try again.
	Set the resolution and frequency to the recommended level. (Refer to page 82)
The screen appears unstable and shaky.	Check that the resolution and frequency for the PC are within the range of resolution and frequency compatible with the product. Next, if required, change the settings, referring to Standard Signal Mode Table (page 85) in this manual and the **INFORMATION** menu on the product.
There are shadows or ghost images left on the screen.	
The screen is too bright. The screen is too dark.	Adjust **Brightness**(page 40) and **Contrast**(page 41).
Screen color is inconsistent.	Change the **COLOR** settings. (Refer to " Configuring Tint")
The colors on the screen have a shadow and are distorted.	Change the **COLOR** settings. (Refer to " Configuring Tint")
White does not really look white.	Change the **COLOR** settings. (Refer to " Configuring Tint")
There is no image on the screen and the power LED blinks every 0.5 to 1 second.	The product is operating in power-saving mode.
	Press any key on the keyboard or move the mouse to return to normal operating mode.

Sound issue	
There is no sound.	Check the connection of the audio cable or adjust the volume.
	Check the volume.

Sound issue	
The volume is too low.	Adjust the volume.
	If the volume is still low after turning it up to the maximum level, adjust the volume on your PC sound card or software program.

Source device issue	
A beeping sound is heard when my PC is booting.	If a beeping sound is heard when your PC is booting, have your PC serviced.

10.2 Q & A

Question	Answer
How can I change the frequency?	Set the frequency on your graphics card. • Windows XP: Go to **Control Panel** → **Appearance and Themes** → **Display** → **Settings** → **Advanced** → **Monitor**, and adjust **Refresh rate** under **Monitor settings**. • Windows ME/2000: Go to **Control Panel** → **Display** → **Settings** → **Advanced** → **Monitor**, and adjust **Refresh rate** under **Monitor settings**. • Windows Vista: Go to **Control Panel** → **Appearance and Personalization** → **Personalization** → **Display Settings** → **Advanced Settings** → **Monitor**, and adjust **Refresh rate** under **Monitor settings**. • Windows 7: Go to **Control Panel** → **Appearance and Personalization** → **Display** → **Screen Resolution** → **Advanced settings** → **Monitor**, and adjust **Refresh rate** under **Monitor settings**. • Windows 8: Go to **Settings** → **Control Panel** → **Appearance and Personalization** → **Display** → **Screen Resolution** → **Advanced settings** → **Monitor** , and adjust **Refresh rate** under **Monitor settings**.

Question	Answer
How can I change the resolution?	• Windows XP: Go to **Control Panel** → **Appearance and Themes** → **Display** → **Settings**, and adjust the resolution. • Windows ME/2000: Go to **Control Panel** → **Display** → **Settings**, and adjust the resolution. • Windows Vista: Go to **Control Panel** → **Appearance and Personalization** → **Personalize** → **Display Settings**, and adjust the resolution. • Windows 7: Go to **Control Panel** → **Appearance and Personalization** → **Display** → **Adjust Resolution**, and adjust the resolution. • Windows 8: Go to **Settings** → **Control Panel** → **Appearance and Personalization** → **Display** → **Adjust Resolution**, and adjust the resolution.
How do I set power-saving mode?	• Windows XP: Set power-saving mode in **Control Panel** → **Appearance and Themes** → **Display** → **Screen Saver Settings** or BIOS SETUP on the PC. • Windows ME/2000: Set power-saving mode in **Control Panel** → **Display** → **Screen Saver Settings** or BIOS SETUP on the PC. • Windows Vista: Set power-saving mode in **Control Panel** → **Appearance and Personalization** → **Personalize** → **Screen Saver Settings** or BIOS SETUP on the PC. • Windows 7: Set power-saving mode in **Control Panel** → **Appearance and Personalization** → **Personalize** → **Screen Saver Settings** or BIOS SETUP on the PC. • Windows 8: Set power-saving mode in **Settings** → **Control Panel** → **Appearance and Personalization** → **Personalize** → **Screen Saver Settings** or BIOS SETUP on the PC.

Refer to the user manual for your PC or graphics card for further instructions on adjustment.

11 Specifications

11.1 General

Model Name		S22B360V	S22B360VW
Panel	Size	21.5 Inches (54 cm)	22 Inches (55 cm)
	Display area	476.64 mm (H) x 268.11 mm (V)	473.76 mm (H) x 296.1 mm (V)
Synchronization	Horizontal Frequency	30 – 81 kHz	
	Vertical Frequency	56 – 75 Hz	
Display Color		16.7M	
Resolution	Optimum Resolution	1920 x 1080 @ 60 Hz	1680 x 1050 @ 60 Hz
	Maximum Resolution	1920 x 1080 @ 60 Hz	1680 x 1050 @ 60 Hz
Maximum Pixel Clock		164 MHz (Analog, HDMI)	
Power Supply		This product uses 100 to 240V. Refer to the label at the back of the product as the standard voltage can vary in different countries.	
Signal connectors		15 pin-to-15 pin D-sub cable, Detachable HDMI to DVI Cable, Detachable	
Dimensions (W x H x D) / Weight	Without Stand	510 x 319 x 53 mm 20.1 x 12.6 x 2.1 Inches	507 x 347 x 53 mm 20.0 x 13.7 x 2.1 Inches
	With Stand	510 x 398 x 195 mm / 2.9 kg 20.1 x 15.7 x 7.7 Inches / 6.4 lbs	507 x 426 x 195 mm / 3.3 kg 20.0 x 16.8 x 7.7 Inches / 7.3 lbs
Environmental considerations	Operating	Temperature : 50°F ~ 104°F (10°C ~ 40°C) Humidity : 10 % – 80 %, non-condensing	
	Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C) Humidity : 5 % – 95 %, non-condensing	

11 Specifications

Model Name	S22B360V	S22B360VW
Plug-and-Play	This monitor can be installed and used with any Plug-and-Play compatible systems. Two-way data exchange between the monitor and PC system optimizes the monitor settings. Monitor installation takes place automatically. However, you can customize the installation settings if desired.	
Panel Dots (Pixels)	Due to the nature of the manufacturing of this product, approximately 1 pixel per million (1ppm) may be brighter or darker on the LCD panel. This does not affect product performance.	

The above specifications are subject to change without notice to improve quality.

This device is a Class B digital apparatus.

(USA only)

Dispose unwanted electronics through an approved recycler.

To find the nearest recycling location, go to our website:

www.samsung.com/recyclingdirect or call, (877) 278 - 0799

11.2 PowerSaver

The power-saving function of this product reduces power consumption by switching off the screen and changing the color of the power LED if the product is not used for a specified period of time. The power is not turned off in power-saving mode. To switch the screen back on, press any key on the keyboard or move the mouse. Power-saving mode functions only when the product is connected to a PC that has a power-saving function.

PowerSaver	Normal operation mode	Power saving mode	Power off (Power button)
Power Indicator	On	Blinking	Off
Power consumption (S22B360V)	Typical 30 W	Typical 0.4 W In this case, the [HDMI IN / MHL] interface is not connected to the mobile device.	Typical 0.3 W In this case, the [HDMI IN / MHL] interface is not connected to the mobile device.
Power consumption (S22B360VW)	Typical 30 W	Typical 0.4 W In this case, the [HDMI IN / MHL] interface is not connected to the mobile device.	Typical 0.3 W In this case, the [HDMI IN / MHL] interface is not connected to the mobile device.

- The power consumption level can vary in different operating conditions or when settings are changed.
- To reduce the power consumption to 0 watts, turn off the power switch on the back of the product or disconnect the power cable. Be sure to disconnect the power cable when you will not be using the product for an extended period of time. To reduce the power consumption to 0 watts when the power switch is not available, disconnect the power cable.

11.3 Standard Signal Mode Table

- This product can be set to only one resolution for each screen size to obtain the optimum picture quality due to the nature of the panel. Therefore, a resolution other than the specified resolution may degrade the picture quality. To avoid this, it is recommended that you select the optimum resolution specified for the screen size of your product.
- Check the frequency when you exchange a CDT monitor (connected to a PC) for an LCD monitor. If the LCD monitor does not support 85 Hz, change the vertical frequency to 60Hz using the CDT monitor before you exchange it with the LCD monitor.

If a signal that belongs to the following standard signal modes is transmitted from your PC, the screen will automatically be adjusted. If the signal transmitted from the PC does not belong to the standard signal modes, the screen may be blank even though the power LED turns on. In such a case, change the settings according to the following table by referring to the graphics card user manual.

S22B360V

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
IBM, 720 x 400	31.469	70.087	28.322	-/+
MAC, 640 x 480	35.000	66.667	30.240	-/-
MAC, 832 x 624	49.726	74.551	57.284	-/-
MAC, 1152 x 870	68.681	75.062	100.000	-/-
VESA, 640 x 480	31.469	59.940	25.175	-/-
VESA, 640 x 480	37.861	72.809	31.500	-/-
VESA, 640 x 480	37.500	75.000	31.500	-/-
VESA, 800 x 600	35.156	56.250	36.000	+/+
VESA, 800 x 600	37.879	60.317	40.000	+/+
VESA, 800 x 600	48.077	72.188	50.000	+/+
VESA, 800 x 600	46.875	75.000	49.500	+/+
VESA, 1024 x 768	48.363	60.004	65.000	-/-
VESA, 1024 x 768	56.476	70.069	75.000	-/-
VESA, 1024 x 768	60.023	75.029	78.750	+/+
VESA, 1152 x 864	67.500	75.000	108.000	+/+
IBM, 720 x 400	45.000	60.000	74.250	+/+
MAC, 640 x 480	49.702	59.810	83.500	-/+
MAC, 832 x 624	63.981	60.020	108.000	+/+

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
MAC, 1152 x 870	79.976	75.025	135.000	+/+
VESA, 640 x 480	55.935	59.887	106.500	-/+
VESA, 640 x 480	60.000	60.000	108.000	+/+
VESA, 640 x 480	65.290	59.954	146.250	-/+
VESA, 800 x 600	67.500	60.000	148.500	+/+

HDMI

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
720 x 480, 480p	31.470	59.940	27.000	+/+
720 x 576, 576p	31.250	50.000	27.000	+/+
1280 x 720, 720p	37.500	50.000	74.250	+/+
1280 x 720, 720p	45.000	60.000	74.250	+/+
1920 x 1080, 1080p	56.250	50.000	148.500	+/+
1920 x 1080, 1080p	67.500	60.000	148.500	+/+

S22B360VW

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
IBM, 720 x 400	31.469	70.087	28.322	-/+
MAC, 640 x 480	35.000	66.667	30.240	-/-
MAC, 832 x 624	49.726	74.551	57.284	-/-
MAC, 1152 x 870	68.681	75.062	100.000	-/-
VESA, 640 x 480	31.469	59.940	25.175	-/-
VESA, 640 x 480	37.861	72.809	31.500	-/-
VESA, 640 x 480	37.500	75.000	31.500	-/-
VESA, 800 x 600	35.156	56.250	36.000	+/+
VESA, 800 x 600	37.879	60.317	40.000	+/+
VESA, 800 x 600	48.077	72.188	50.000	+/+
VESA, 800 x 600	46.875	75.000	49.500	+/+

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
VESA, 1024 x 768	48.363	60.004	65.000	-/-
VESA, 1024 x 768	56.476	70.069	75.000	-/-
VESA, 1024 x 768	60.023	75.029	78.750	+/+
VESA, 1152 x 864	67.500	75.000	108.000	+/+
VESA, 1280 x 720	45.000	60.000	74.250	+/+
VESA, 1280 x 800	49.702	59.810	83.500	-/+
VESA, 1280 x 1024	63.981	60.020	108.000	+/+
VESA, 1280 x 1024	79.976	75.025	135.000	+/+
VESA, 1440 x 900	55.935	59.887	106.500	-/+
VESA, 1600 x 900	60.000	60.000	108.000	+/+
VESA, 1680 x 1050	65.290	59.954	146.250	-/+

HDMI

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
720 x 480, 480p	31.470	59.940	27.000	+/+
720 x 576, 576p	31.250	50.000	27.000	+/+
1280 x 720, 720p	37.500	50.000	74.250	+/+
1280 x 720, 720p	45.000	60.000	74.250	+/+

- Horizontal Frequency

  The time required to scan a single line from the left to the right side of the screen is called a horizontal cycle. The reciprocal number of a horizontal cycle is called horizontal frequency. Horizontal frequency is measured in kHz.

- Vertical Frequency

  Repeating the same picture dozens of times per second allows you to view natural pictures.

  The repeat frequency is called "vertical frequency" or "refresh rate" and is indicated in Hz.

Contact SAMSUNG WORLD WIDE

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care center.

NORTH AMERICA		
U.S.A	1-800-SAMSUNG (726-7864)	http://www.samsung.com
CANADA	1-800-SAMSUNG (726-7864)	http://www.samsung.com/ca (English) http://www.samsung.com/ca_fr (French)
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EL SALVADOR	800-6225	http://www.samsung.com/latin (Spanish) http://www.samsung.com/latin_en (English)

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UZBEKISTAN	8-10-800-500-55-500	http://www.samsung.com

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EGYPT	08000-726786	http://www.samsung.com
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JORDAN	800-22273 065777444	http://www.samsung.com
KUWAIT	183-2255	http://www.samsung.com/ae (English) http://www.samsung.com/ae_ar (Arabic)
MOROCCO	080 100 2255	http://www.samsung.com

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KENYA	0800 724 000	http://www.samsung.com
NAMIBIA	8197267864	http://www.samsung.com
NIGERIA	0800-726-7864	http://www.samsung.com
SENEGAL	800-00-0077	http://www.samsung.com
SOUTH AFRICA	0860-SAMSUNG (726-7864)	http://www.samsung.com
TANZANIA	0685 88 99 00	http://www.samsung.com
UGANDA	0800 300 300	http://www.samsung.com
ZAMBIA	211350370	http://www.samsung.com

Responsibility for the Pay Service (Cost to Customers)

When the service is requested, in spite of in warranty, we may charge you for a visit from a service technician in the following cases.

Not a product defect

Cleaning of the product, Adjustment, Explanation, Re-installation and etc.

- If a service technician gives instructions on how to use product or simply adjusts options without disassembling product.
- If a defect is caused by external environmental factors. (Internet, Antenna, Wired Signal, etc.)
- If a product is reinstalled or devices are connected additionally after installing the purchased product for the first time.
- If a product is reinstalled to move to a different spot or to move to a different house.
- If customer requests instructions on how to use because of another company's product.
- If customer requests instructions on how to use the network or another company's program.
- If customer requests software installation and setup for the product.
- If a service technician removes/cleans dusts or foreign materials inside of the product.
- If customer requests an installation additionally after purchasing a product through home-shopping or online.

A Product damage caused by customer's fault

Product damage caused by customer's mishandling or wrong repair

If a product damage is caused by;

- external impact or drop.
- use of supplies or separately sold product unspecified by Samsung.
- repair from a person besides an engineer of outsourcing service company or partner of Samsung Electronics Co., Ltd.
- remodeling or repairing the product by customer.
- using it with incorrect voltage or non-authorised electrical connections.
- not following the "cautions" in User Manual.

Others

- If product fails by natural disaster. (lightning, fire, earthquake, flood damage, etc)
- If consumable components are all used up. (Battery, Toner, Fluorescent lights, Head, Vibrator, Lamp, Filter, Ribbon, etc.)

Appendix

If customer requests a service in case the product has no defect, service fee may be charged. So please read User Manual first.

Correct Disposal

Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

(Applicable in countries with separate collection systems)

This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.

Terminology

OSD (On Screen Display)

On screen display (OSD) allows you to customize on-screen settings to optimize the picture quality as required. You can change the screen brightness, tint, size and many other settings using menus displayed on the screen.

Gamma

The Gamma menu adjusts the grey scale that represents middle tones on the screen. Adjusting the brightness brightens the whole screen, but adjusting Gamma only brightens the medium brightness.

Grey scale

Scale refers to levels of color intensity that show variations of color change from darker areas to brighter areas on the screen. Changes to the screen brightness are expressed with black and white variation, and grey scale refers to the medium area between black and white. Changing the grey scale through Gamma adjustment will change the medium brightness on the screen.

Scanning rate

Scanning rate, or refresh rate, refers to the frequency of screen refreshes. Screen data is transmitted as it refreshes to display an image, although the refreshing is invisible to the naked eye. The number of screen refreshes is called scanning rate and is measured in Hz. A scanning rate of 60Hz means that the screen refreshes 60 times per second. The screen scanning rate depends on the performance of the graphics cards in your PC and monitor.

Horizontal Frequency

Characters or images displayed on the monitor screen consist of numerous dots (pixels). Pixels are transmitted in horizontal lines, which are then arranged vertically to create an image. The horizontal frequency is measured in kHz and represents how many times horizontal lines per second are transmitted and displayed on the monitor screen. A horizontal frequency of 85 means that the horizontal lines that make up an image are transmitted 85000 times per second. The horizontal frequency is indicated in 85kHz.

Vertical Frequency

One image is made of numerous horizontal lines. The vertical frequency is measured in Hz and represents how many images can be created per second by those horizontal lines. A vertical frequency of 60 means that an image is transmitted 60 times per second. The vertical frequency is also called "refresh rate" and affects screen flicker.

Resolution

Resolution is the number of horizontal pixels and vertical pixels that form a screen. It represents the level of display detail.

A higher resolution displays a greater amount of information on the screen and is suitable for performing multiple tasks at the same time.

E.g. A resolution of 1920 x 1080 consists of 1,920 horizontal pixels (horizontal resolution) and 1,080 vertical lines (vertical resolution).

Plug & Play

The Plug & Play feature allows the automatic exchange of information between a monitor and PC to produce an optimum display environment.

The monitor uses VESA DDC (international standard) to execute Plug & Play.

MHL (Mobile High-Definition Link)

This feature allows you to enjoy videos and photos (imported from a connected mobile device that supports **MHL**) on the screen of the product.

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